



2018 NATIONAL PAINTING COST ESTIMATOR

Dennis D. Gleason, CPE



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By Dennis D. Gleason, CPE

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How to Use This Book

Paint estimating is more of an art than a science. There's no price that's exactly right for every job and for every bidder. That's because every painting job is unique. No single material cost, no labor estimate, no pricing system fits all types of work. And just as every job varies, so do painting companies. No two painting contractors have the same productivity rates, the same labor burden, the same overhead expense and the same profit requirements.

The best paint estimates are always custom-made for a particular job. They're based on the contractor's actual productivity rate, material cost, labor cost, overhead percentage and profit expectations. No estimating book, no computerized estimating system, no estimating service can possibly account for all the variables that make every job and every painting company different. Only a skilled estimator using professional judgment and a proven estimating system can produce consistently reliable estimates on a wide variety of painting jobs.

So, Why Buy This Book?

That's easy. This is the most complete, authoritative and reliable unit cost guide ever made available to paint estimators. No matter what types of work you estimate, no matter what your costs are, this book will help produce consistently accurate painting cost estimates in dollars and cents. But it isn't a substitute for expertise. It's not a simple way to do in minutes what an experi-

enced paint estimator might not be able to do in hours. Instead, this unit cost guide will aid you in developing a good estimate of costs for any painting operation on any project. Think of this manual as one good estimating tool. But it's not (or at least shouldn't be) the only estimating tool you'll use.

For most jobs, I expect that the figures you see here will prove to be good estimates. But anyone who understands paint estimating will understand why judgment is needed when applying figures from this manual — or any other paint estimating guide. It's your responsibility to decide which conditions on the job you're bidding are like conditions assumed in this manual, and which conditions are different. Where conditions are different, you'll need good professional judgment to arrive at a realistic estimated cost.



Inside the back cover of this book you'll find a software download certificate. To access the download, follow the instructions printed there. The download includes the National Estimator, an easy-to-use estimating program with all the cost estimates in this book. The software will run on PCs using Windows XP, Vista, 7, 8, or 10 operating systems. When the National Estimator program has been installed, click Help on the menu bar to see a list of topics that will get you up and running. Or, go online to www.craftsman-book.com and click on Support, then Tutorials, to view an interactive tutorial for National Estimator.

	Manhour productivity	Labor cost per hour	Labor burden percent	Labor burden dollars	Labor cost plus burden	Material price discount	Overhead percent	Profit
Slow (1P)	Low	\$20.75	24.0%	\$4.98	\$25.73	20%	19.0%	16%
Medium (2P)	Average	27.00	28.9%	7.80	34.80	30%	25.0%	12%
Fast (3P)	High	34.00	35.3%	12.00	46.00	40%	31.0%	7%

Notes: These rates are for painters. Hourly rates for wallcovering are different. See page 29. Slow, Medium and Fast jobs are defined on page 13. Labor burden percentages used in this book are summarized on page 31. National Estimator uses hourly rates in the Labor cost plus burden column. National Estimator shows productivity rates (Slow, Medium and Fast) and copies the words Slow, Medium or Fast to your estimate. It also copies the crew productivity code, either 1P (Slow), 2P (Medium), or 3P (Fast) to your estimating form. National Estimator allows you to enter any percentage you select for overhead and profit.

Figure 1

The basis for painting cost estimates in this book

How to Use the Tables

The estimating tables in this book show typical costs and bid prices for every painting operation you're likely to encounter, whether paint is applied by brush, roller, mitt or spray. Selecting the right cost table and the correct application method is easy. Tables are divided into four parts:

Part I: General Painting Costs

Part II: Preparation Costs

Part III: Industrial, Institutional and Heavy Commercial Painting Costs

Part IV: Wallcovering Costs

Each section is arranged alphabetically by operation. If you have trouble finding the tables you need, use the Table of Contents at the front of the book or the Index at the back of the book.

Once you've found the right table and the appropriate application method, you have to select the correct application rate. For each of the application methods (brush, roll, mitt or spray), the tables show three application rates: "Slow," "Medium," or "Fast." That's a very important decision when using this book, because each application rate assumes different manhour productivity, material coverage, material cost per gallon, hourly labor cost, labor burden, overhead and profit.

Your decision on the application rate to use (or which combination of rates to use) has to be based on your evaluation of the job, your painters and your company. That's where good common sense is needed.

Figure 1 shows crew codes, labor costs, labor burdens, material discounts, and profit for each of the three production rates for painting.

The "Slow" application rate in Figure 1 assumes lower productivity (less area covered per manhour), a lower labor cost (due to a less skilled crew), a lower labor burden (due to lower fringe benefits), a lower discount on materials (because of low volume), higher overhead (due to lower volume) and a higher profit margin (typical on small repaint or custom jobs). Figures in this "Slow" application row will apply where painters with lower skill levels are working on smaller or more difficult repaint jobs.

Look at the "Fast" row in Figure 1. These estimates will apply where a skilled crew (higher hourly rate and larger fringe benefits) is working under good supervision and good conditions (more area covered per manhour) on larger (volume discount on materials) and more competitive jobs (lower profit margin). Figures in the "Fast" application row assume high productivity and lower material coverage, (unpainted surfaces absorb more paint), like that of a residential tract job.

Each of the three application rates is described more completely later in this section.

	Pricing variables			Unit cost estimate					
	1	2	3	4	5	6	7	8	9
	Labor SF per man- hour	Material coverage SF/gallon	Material cost per gallon	Labor cost per 100 SF	Labor burden 100 SF	Material cost per 100 SF	Overhead per 100 SF	Profit per 100 SF	Total cost per 100 SF
Walls, gypsum drywall, orange peel or knock-down, roll, per 100 SF of wall area									
Flat latex, water base (material #5)									
Roll 1st coat									
Slow	400	300	34.10	5.19	1.24	11.37	3.38	3.39	24.57
Medium	538	275	29.80	5.02	1.45	10.84	4.33	2.60	24.24
Fast	675	250	25.60	5.04	1.77	10.24	5.29	1.56	23.90
Your customized figures				3.11	.75	10.65	3.63	2.18	20.32

Figure 2
Customize the tables

The Easy Case: No Adjustments

Let's suppose the "Slow" application rate fits the job you're estimating almost perfectly. Your crew's productivity is expected to be low. The labor cost will be \$20.75 per hour. Labor burden (fringes, taxes and insurance) will be 24.0 percent. Discount on materials will be 20 percent. Overhead will be 19 percent and profit will be 16 percent. Then your task is easy. All of your costs match the costs in the "Slow" row. No modifications are needed. The same is true if your costs fit the "Medium" or "Fast" rows.

But that's not always going to happen. More often, the job, your crew and your company won't fit exactly into any of the three rows. What then? More evaluation is required. You'll combine costs from several application rate rows to reach an accurate bid price. I call that *customizing your costs* and it's nearly always required for an accurate estimate.

Customizing Your Costs

Every company has a different combination of work-speed and experience, taxes, benefits, spread rates, equipment needs, percentage for overhead, and profit margin. These are the cost variables in paint estimating.

This book is designed so you can quickly and easily adjust estimates to reflect actual costs on the job you're estimating. It's important that you *read the rest of this section before using the cost tables in this book*. That's the only way to get from this manual all the accuracy and flexibility that's built into it.

In the remainder of this section I'll describe the assumptions I've made and the methods I used to compile the cost tables in this manual. Once you understand them, you'll be able to combine and modify costs in the estimating tables so your bids fit the job, your crew and your company as closely as possible.

When you start using the cost tables in this book, I suggest you circle numbers in the "Slow," "Medium," or "Fast" application rate rows that best fit your company and your jobs. To improve accuracy even more, write your own figures in the blank row below the "Fast" row in each table, like I've done in Figure 2.

A Practical Example

Figure 2 is part of an estimating table taken from page 228 of this book, General Painting Costs. I'm going to use it to show how to customize estimates to match

National Painting Cost Estimator

your actual costs. In Figure 2 I've circled some of the costs I plan to use in a sample estimate and calculated others.

In column 1, *Labor SF per manhour*, I've circled 675 because I feel the journeyman painter assigned to this job can paint walls at the "Fast" rate of 675 square feet per hour. That's the number I plan to use for my estimate.

In column 2, *Material coverage SF/gallon*, I've reviewed my past performance and I expect coverage will be about 275 square feet per gallon of paint. So I've circled that figure.

In column 3, *Material cost per gallon*, I've circled 29.80 for my cost per gallon for flat water base latex (including tax and an allowance for consumable supplies), based on a 30 percent discount from the retail price.

So far, so good. That completes the first three columns, what I call the *pricing variables*. Now we can begin on the *unit cost estimate*, columns 4 through 9. Each of these columns show a price per 100 square feet of wall.

We'll start with column 4, *Labor cost per 100 SF*. Notice that I've entered 3.11 for this column. Here's why. Look back at Figure 1 and the "Slow" labor rate at \$20.75. (See Figure 13 on page 29 for the wage rates for wallcovering.) Since I'm in a part of the country where prices, and wages, are lower than the national average, my experienced painters work for \$21, closer to the "Slow" labor cost, though they produce at the "Fast" rate of 675 SF per manhour. This gives me an advantage because my labor costs are lower than those in Figure 1. To calculate the labor cost per 100 SF, divide \$21.00 by 675 and multiply by 100: $21/675 = .0311 \times 100 = 3.11$.

In column 5, *Labor burden 100 SF*, I've entered .75. This figure is a result of my labor cost at \$3.11 x 24.0 percent, my labor burden (taxes, insurance and benefits) from the "Slow" row of Figure 1. Even though the labor rate is "Fast" and the labor cost is higher than the "Slow" rate, for this example labor burden will be most like work done at the "Slow" rate because this company doesn't offer many benefits.

In column 6, *Material cost per 100 SF*, I've circled 10.65, the number in the "Medium" row. Since I've used numbers in the "Medium" row in both columns 2 and 3, I can take the figure in column 6 for material costs directly from the table, without any calculations.

In column 7, *Overhead per 100 SF*, I've calculated the overhead dollar value by adding the labor cost, labor burden and material cost then multiplying that sum by the "Medium" overhead at 25 percent: $\$3.11 + \$.75 + \$10.65 = \$14.51 \times .25 = \$3.63$.

In column 8, *Profit per 100 SF*, I've calculated the profit dollar value by adding the labor cost, labor burden, material cost and overhead then multiplying that sum by the "Medium" profit at 12 percent from Figure 1. The result is $\$3.11 + \$.75 + \$10.65 + \$3.63 = \$18.14 \times .12 = \2.18 .

Column 9, *Total cost per 100 SF*, is the bid price — it's the sum of columns 4 through 8 for each row. Because I've circled costs that fall in more than one row, I can't use any figure in column 9. Instead, I simply add the circled or calculated figures in columns 4 through 8: $\$3.11 + \$.75 + \$10.65 + \$3.63 + \$2.18 = \20.32 . That's my bid price per 100 square feet on this job. It's the combination of costs that fit my company, my painters and the job.

Using Your Good Judgment

Of course, judgment is required when using these tables, as it is when making any estimate. For example, if your journeymen painters earn the top rate of \$33.75 but work at the "Medium" production rate or slower, your labor cost per unit will be higher than the highest cost listed in column 4. An adjustment will be required.

Because figures in columns 7 and 8 are percentages of figures in columns 4, 5 and 6, you have to be careful when you blend costs from different rows. Let's look at an extreme (and unlikely) example.

Suppose you use costs from the "Slow" application row for columns 4 (5.19), 5 (1.24) and 6 (11.13) of Figure 2. The total of those three costs is \$17.56. Then you decide to use overhead from the "Fast" row because your overhead is about 31 percent of cost, not 19 percent of cost as in the "Slow" row (Figure 1). "Fast" overhead is listed as \$5.21 in Figure 2. The correct overhead figure is \$5.44, 31 percent of the sum of "Slow" costs in columns 4, 5 and 6. Be aware of this small discrepancy and calculate figures for all the categories yourself if extreme accuracy is essential.

Converting Unit Prices

The last column in Figure 2 shows the total cost per 100 square feet of wall. Some estimating tables in this book show a total cost per 100 linear feet (such as for baseboard) or total costs per unit (such as for doors). To convert a cost per 100 square feet to a cost per square foot, move the decimal point two places to the left. Thus the cost per 100 square feet for the “Fast” rate in Figure 2 is \$23.55 or about 24 cents per square foot.

General Qualifications

It’s important that you understand the conditions the tables are based upon. I call these conditions the job qualifications. A qualifications statement follows each estimating table to help you understand what’s included and what’s excluded. Please read those *qualifications* before using costs from this manual in your estimates. The following points apply to *all* tables in this book:

Included Costs

- Minor preparation, both time and material. Normal preparation for new residential construction is included in the “Fast” row and for new commercial jobs in the “Medium” row. Minimal preparation is included for repaint jobs in the “Slow” row.
- Minimum setup and cleanup
- Equipment such as ladders, spray rigs and brushes are included in overhead for the “Fast” rate (residential tracts) or “Medium” (commercial) work. Add equipment costs at their rental rate for “Slow” (repaint) jobs.

Excluded Costs

- Equipment costs such as ladders, spray rigs, etc. for “Slow” (repaint) jobs. Add these at their rental rate whether or not you own the equipment.
- Extensive surface preparation. Add the cost of time and materials needed for more than “normal” preparation work. Also add time to remove and replace hardware and accessories, protect

adjacent surfaces, and do any extensive setup, cleanup, or touchup. (See the discussion of SURRPTUCU on the next page.)

- Mobilization or demobilization
- Supervision
- Material handling, delivery, or storage
- Sample preparation
- Mixing coatings
- Excessive material waste or spillage
- Equipment rental or placement costs
- Scaffolding rental and erection costs
- Subcontract costs
- Contingency allowance
- Owner allowances
- Commissions, bonuses, overtime, premium pay for shift adjustments (evening work), travel time or per diem.
- Bonds, fees, or permits
- Additional insurance to meet owner requirements
- Work at heights above 8 feet or beyond the reach of a wand or extension pole. (See the table for High Time Difficulty Factors on page 139.)

Surface Preparation

The Preparation estimating tables that follow Part I: General Painting Costs, apply to both interior and exterior surfaces.

Surface preparation is one of the hardest parts of the job to estimate accurately. Any experienced painter can make a reasonably good estimate of the quantity of paint and time needed for application. But the amount of prep work needed will vary widely — especially for repaint jobs. Some will need very little work. Others will take more time for prep than for painting.

Preparation work for new construction jobs is relatively standard and consistent. You'll have to mask cabinets before spraying sealer on wet area walls, caulk at the baseboards, putty the nail holes in wood trim, and occasionally use a wire brush to smooth and clean a surface. The time required for this work is fairly predictable.

Labor cost for normal preparation of unpainted surfaces in new residential construction is included in the "Fast" *labor* costs and for new commercial construction in the "Medium" *labor* cost. The cost of materials for normal surface preparation on unpainted surfaces is included in the sundries allowance that's part of the "Fast" or "Medium" material cost.

But if more than normal surface prep work is needed, estimate the extra manhours and materials required and add these costs to your estimate.

Add for Repaint Preparation

The "Slow" unit costs include no surface preparation other than a quick wipedown. Preparation on a repaint job may take longer than the painting itself. That's why you have to estimate surface prep as a separate item and add that cost to your estimate.

A misjudgment in estimating preparation work can be very expensive. That's why I recommend that you bid surface preparation by the hour, using your shop rate for "time and material" jobs, or some other specified hourly rate. That protects you against cost overruns if the preparation takes longer than anticipated. But there's a danger here. Owners may be angry about the cost because they don't understand what's involved in preparation and why it takes so long. You can avoid this with a "not to exceed" bid that contains a maximum price for the prep work. Your bid should define the scope of preparation work in detail and list exactly what's included and excluded. Be sure to consider all the labor, material, and equipment costs involved.

If you have to bid repaint work, be sure to include all the miscellaneous costs. The acronym I use to identify these miscellaneous costs is SURRPTUCU: Setup (SU), Remove and Replace (RR), Protection (P), Touchup (TU) and Cleanup (CU). Add these costs to your repaint estimate if they require anything beyond minimum attention.

- 1) *Setup* includes unloading the vehicle, spreading the tarp and setting up the tools — everything that has to be done before prep or painting can begin.
- 2) Remove and replace everything that will interfere with painting, including door and cabinet hardware, the contents of cabinets, light fixtures, bathroom accessories, switch covers and outlet plates, among others.
- 3) *Protection* for furniture and adjacent surfaces such as floors, cabinets, plumbing or electrical fixtures, windows, and doors. Protection methods include masking, applying visqueen, laying drop cloths and applying a protective coating on windows.
- 4) *Touchup* time varies with the speed and quality of the painting job and how fussy the owner is. The more careful your painters are, the less touchup time needed. You can estimate touchup time accurately only if you know how well your crews perform. The Touchup table in this book is based on a percentage of total job cost.
- 5) *Cleanup* time is usually about the same as setup time, about 20 to 30 minutes each day for repaint jobs. Cleanup time begins when work stops for the day and ends when the crew is back in the truck and ready to go home. It includes cleaning tools, dismantling the paint shop and loading the vehicle.

Subcontractors

Painting contractors don't hire many subcontractors. But once in a while you'll need a specialist for sandblasting, waterblasting, wallcovering, scaffolding or pavement marking. Subcontract costs are not included in the estimating tables. Add the cost of any subcontract work that will be required.

Figure 3 shows some typical rates quoted by sandblasting subcontractors. Of course, prices in your area will probably be different. You could also figure sandblasting unit costs from the sandblasting estimating tables included in Part II, Preparation Costs, in this book.

Minimum charges: \$611.00, scaffolding not included		Epoxy coated - add	1.28 to 1.41/SF
Additional insurance: May be required to cover adjacent personal and real property which may not be protected.		With portable equipment - add	.74 to 1.07/SF
Sandblasting water soluble paints	\$1.07 to 1.22/SF	Commercial blast - 67% white stage	
Sandblasting oil paints	1.13 to 1.28/SF	Field welded, new, uncoated	
Sandblasting heavy mastic		ground runs	1.13 to 1.34/SF
(depends on coating thickness)	1.47 to 1.61/SF	above ground	1.41 to 2.22/SF
Sandblasting brick - light blast	1.07 to 1.22/SF	Previously painted surfaces - add	.68 to 1.22/SF
Sandblasting masonry block walls		Epoxy coated - add	1.22 to 1.41/SF
Clean up & remove grime - light	1.00 to 1.07/SF	With portable equipment - add	.87 to 1.07/SF
- heavy	1.53 to 1.68/SF	Near white blast - 95% white stage	
Sandblasting structural steel		Field welded, new, uncoated	
Pricing rules of thumb:		ground runs	1.34 to 1.54/SF
Pipe up to 12" O.D.	1.53 to 2.28/SF	above ground	1.54 to 2.35/SF
Structural steel up to 2 SF/LF	1.41 to 1.63/SF	Previously painted surfaces - add	.68 to 1.22/SF
Structural steel from 2 to 5 SF/LF	1.68 to 1.88/SF	Epoxy coated - add	1.22 to 1.41/SF
Structural steel over 5 SF/LF	(depends on shape)	With portable equipment - add	.87 to 1.07/SF
Tanks and vessels up to 12'0" O.D.	2.22 to 2.56/SF	White blast - 100% uniform white stage	
Tanks and vessels over 12'0" O.D.	2.22 to 2.56/SF	Field welded, new, uncoated	
Brush off blast - light blast (loose mill scale)		ground runs	2.02 to 2.35/SF
Field welded, new, uncoated		above ground	2.22 to 2.61/SF
ground runs	.68 to .87/SF	Previously painted surfaces - add	.68 to 1.13/SF
above ground	1.00 to 1.88/SF	Epoxy coated - add	1.22 to 1.41/SF
Previously painted surfaces - add	.68 to 1.22/SF	With portable equipment - add	.68 to 1.01/SF

Figure 3
Sandblasting pricing table

Figure 4 shows typical subcontract bids for pavement marking. Again, prices in your area may be different.

If you do much repainting, you'll probably want to buy a waterblasting rig. Even if you own the blaster, include a charge in each estimate for the equipment as though you rented it from a rental yard just for that job. Figure the unit costs for waterblasting from Part II of this book, Preparation Costs.

Consider using a waterblasting subcontractor if you don't need the service often. Figure 5 shows some typical rates for waterblasting. Make up a table like this based on quotes from subcontractors in your area. For a more detailed table, see Sandblasting in the Preparation section, page 303.

When you hire a subcontractor, make sure the quoted price includes everything that contractor has to do — all labor, material (with tax, if applicable), equipment,

overhead and profit. Add your overhead and profit percentage to the subcontractor's bid price when you enter that item on the estimate.

Contingencies

Occasionally you'll add a contingency allowance on bids for repaint projects where there are unknowns that can't be forecast before work actually begins. Contingency allowances are rarely needed when estimating new construction. When necessary, the contingency amount is usually from 3 to 5 percent. It can go higher, however, if there are unusual conditions or unknowns that make it hard to produce an accurate estimate. Include a contingency allowance in your estimates only if you have reason to expect:

- An uncertain scope of work (unknown job conditions)
- An inexperienced owner or general contractor
- Incomplete drawings

Pricing rules of thumb:

Number of parking spaces: Figure on one space per 300 SF of pavement

Single line striping with light graphics application	\$10.50 per space
Single line striping with heavy graphics application	18.30 per space
Single striping, light graphics and 3' wheel stop	26.00 per space
Single striping, heavy graphics and 3' wheel stop	33.70 per space

Equipment pricing:

Simple "inverted spray can" approximate cost	\$236.00
Professional striping machine cost range	4,860 to 5,350
Professional road/highway striper	270,000

Subcontractor pricing:

Move on:	\$159.00 to 194.00
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Striping prices:

Single line striping	\$.48 to .62 per lineal foot
Bike lane striping	.62 to .72 per lineal foot
Fire lane, red curb	.62 to .72 per lineal foot

Symbol pricing:

Templates - 8'0" template	\$183.00 to 218.00 each
Arrows	41.40 to 48.60 each
Handicap symbol, one color	17.00 to 23.00 each
two color	30.50 to 36.50 each
No parking fire lane stencil	3.29 to 4.01 each

Wheel stops:

3'0" stops	\$23.00 to 29.20 each if pinned on asphalt 30.50 to 36.50 each if glued and pinned
6'0" stops	36.50 to 43.80 each if pinned on asphalt 43.80 to 50.00 each if glued and pinned (add for stops pinned to concrete)

Signs and posts:

Sign only 12" x 18"	\$51.00 to 71.80
Post mounted 12" x 18"	134.00 to 185.00

Pavement markers:

One way pavement markers	\$10.90 each
Two way pavement markers	14.60 each

Figure 4
Pavement marking pricing table

Minimum charges: \$608.00, scaffolding not included	
Additional insurance: May be required to cover adjacent personal and real property	
Pricing rules of thumb:	
Up to 5,000 PSI blast	4 hour minimum \$134.00/hour
5,000 to 10,000 PSI blast	8 hour minimum \$194.00/hour
10,000 PSI blast	8 hour minimum \$240.00/hour
Wet sandblasting	4 hour minimum \$154.00/hour

Figure 5
Waterblasting pricing table

- Delays in beginning the project
- Owner involvement in supervision
- Below-standard working conditions

heading are divided according to coating material, then by application method, and further into the “Slow,” “Medium,” and “Fast” application rates.

Column 1: Labor Productivity

Don’t use contingency allowances as a substitute for complete estimates. Include contingency only to cover what can’t be estimated, not what you don’t have time to estimate accurately.

This column shows units of work completed per manhour. My estimates assume that painters are experienced and motivated professionals. The labor productivity categories are shown in Figure 6.

Column Headings Defined

Take another look at Figure 2. The heading describes the surface to be coated: the type, texture, and often, condition. Sections within each surface

My experience is that a painting company that can handle larger projects will have highly skilled, better qualified and more productive painters. The estimating tables also assume that repainting a surface usually takes about 35 percent more time than painting newly constructed surfaces. Much of this extra time is spent protecting adjacent areas.

Slow	Medium	Fast
Repaint jobs	New commercial projects	New residential production
Custom painting	Industrial painting	Repetitious painting
Tenant improvements	—	—
Small jobs	Medium-sized jobs	Large projects
Single units	Two to four units	Five or more units
Low production	Average production	High production
High difficulty	Average difficulty	Low difficulty
Poor conditions	Average conditions	Good conditions
High quality	Average quality	Minimum quality
Semi-skilled crew	Skilled crew	Highly skilled crew
No supervision	Some supervision	Good supervision

Figure 6
Labor productivity categories

To establish your company's production levels, ask your field superintendent to monitor the time needed to complete each task and to keep records of crew productivity. You can use the Field Production Times and Rates form on pages 419 and 420 to track your painters' productivity. Make copies of the blank form and have your field superintendent or job foreman give one to each painter on every job. Your superintendent should check the forms frequently to insure they are accurate and kept up to date. Your best guide to productivity on future jobs is productivity on jobs already completed, and this form will help you keep track of your production time. Refer back to Figure 2 on page 7. You can use the results collected on these forms to complete the customized figures row under the "Fast" operation in Figure 2 for every operation in the National Painting Cost Estimator. Examples of how to use Figure 2 are on pages 7 through 9. The more you know about your painters' performance, the more accurate your estimates will be. But don't expect your estimates and actual production to always match exactly. Painters are human beings, not robots. You can't expect them to work at the same rate at all times.

Reduced Productivity

The tables in this book assume no overtime work. Excessive overtime puts a strain on your craftsmen and reduces productivity. A few consecutive days of overtime can drag productivity down to well below average. It's good practice not to assign overtime work on more than two consecutive days.

Work efficiency is also lower when men, materials and equipment are confined in a small area or required to work in cluttered, poorly lit or dirty rooms. Painters need elbow room to work efficiently and get maximum productivity. They're also more productive in a clean environment where they can see what they're doing. It's easier — and safer — to work in a well-lighted area that's relatively clear of debris. If the work area is confined or dirty, reduce estimated productivity accordingly.

Supervision

Supervision expense is not included in the cost tables. Add the cost of supervision to your estimates.

Most supervision is done by foremen. Every crew should have a project foreman designated, usually the most experienced and reliable painter on the job. When not supervising, project foremen should be painting.

Thus the project foreman is a working supervisor. Part of the foreman's time will be productive (applying coatings) and part will be nonproductive (directing the work).

If you have more than three or four jobs going at one time, you need a field superintendent. The field superintendent is the foreman's supervisor. His or her primary responsibility is to be sure that each foreman has the manpower, materials and equipment needed to get the job done. The field superintendent should monitor job progress to be sure manhour productivity and materials used are in line with estimates. Field superintendents usually are not working supervisors; all their time is nonproductive. Figure the field superintendent's salary as overhead expense, because you can't charge his salary to a specific job.

Your project foremen and field superintendent can make or break a job. The better they are, the more work will be done. You want a field superintendent who assigns the right painters to the right foreman, and a foreman who puts the right painters on the right tasks. The most experienced tradesmen should work on tasks that require more skill. Other painters should be used where less skill is needed. The project foreman is also responsible for job safety and quality control.

Your estimates will be more competitive if you can assume high productivity. That's only possible when you have good supervision, from both foremen and superintendent, and motivated crews.

Allowances for Supervision

Supervision isn't considered productive labor. A foreman isn't painting when he's scheduling, organizing a job and instructing his workers. Here are my rule-of-thumb allowances for nonproductive labor on painting jobs.

Custom homes. Allow 2.5 hours of nonproductive supervision for a home up to 1,500 square feet, 3 hours on a home between 1,500 and 2,000 square feet, 4 hours on a custom home between 2,000 and 2,500 square feet, and 5 hours on a larger home.

Model homes in a tract. One hour of nonproductive supervision for each day your crew will be on the job.

Most tract homes. One hour per house.

Higher-quality tract homes. Two hours per house.

Slow application and light coverage (Repaint jobs)	Medium application and medium coverage (Commercial projects)	Fast application and heavy coverage (Residential tracts)
Repaint jobs	Commercial projects	Residential production
Light usage	Moderate usage	Heavy usage
Low absorption	Moderate absorption	High absorption
Light application	Medium application	Heavy application
Low waste	Moderate waste	High waste
Quality paint	Standard paint	Production paint
Semi-skilled painters	Skilled crew	Highly skilled crew

Figure 7
Material coverage rates

Apartments and condos. Allow 1 hour per unit if there are 10 units or less. For 11 to 30 units, allow 0.75 hours of nonproductive time per unit. If there are more than 30 units, allow 0.5 hour per unit.

Nonproductive labor on commercial, industrial, institutional and government projects varies considerably. More complex jobs will require proportionately more nonproductive labor. Use your knowledge based on past experience to estimate supervision either as a percentage of job cost or by the square foot of floor.

coverage is typical on “Slow” (repaint) jobs because previously painted surfaces usually absorb 10 to 15 percent less paint than an unpainted surface. All coverage rates are based on paint that’s been thinned according to the manufacturer’s recommendations.

Of course, coverage varies with the paint you’re using and the surface you’re painting. Paint manufacturers usually list the recommended coverage rate on the container label. I’ve listed estimated coverage rates in the tables throughout this book.

Column 2: Material Coverage

The second column in the cost tables shows the estimated material coverage in units (usually square feet or linear feet) per gallon. Figure 7 shows the conditions likely to apply for each of the three material coverage rates. Every condition listed in each of these categories won’t necessarily occur on every painting operation. For example, it’s possible to have high waste and use low quality paint on a repaint job. But it’s more likely that waste will be low and paint quality high on jobs like that.

The “Slow” (repaint) application rate assumes light coverage, “Medium” (commercial project) application rate assumes medium coverage and “Fast” (residential tract) application rate assumes heavy coverage. Light

Calculating Film Thickness

Many project specifications for commercial, industrial and government jobs identify the coating (film) thickness you have to apply to each surface. The thickness is given in mils, or thousandths of an inch. One mil is 0.001 inch.

The thickness of the dry paint film depends on the percentage of solids in the paint. If you apply a gallon of paint containing 100 percent solids over 1,600 square feet, the dry film will be 1 mil thick — that is, if 100 percent of the paint adheres to the wall. But if there’s 10 percent waste (because of paint that’s left in the can, on brushes, or spilled), only 90 percent of the material ends up on the surface.

Slow application	Medium application	Fast application
Repaint jobs	Commercial projects	Residential tracts
Low volume	Medium volume	High volume
20% discount	30% discount	40% discount

Figure 8
Material price discounts

Here's a formula for coverage rates that makes it easy to calculate mil thickness, including the waste factor. Coverage rate equals:

$$\frac{\% \text{ of solids} \times 1600}{\text{mil thickness}} \times (1.00 - \text{waste factor})$$

Here's an example. Assume you're applying paint with 40 percent solids (by volume), using a roller. The waste factor is 10 percent. You need a thickness of 5 mils.

Here's the calculation for the coverage rate:

$$\frac{.40 \times 1600}{5} \times (1.00 - .10) = 115.2 \text{ per gallon}$$

You may have to apply several coats to get a thickness of 5 mils. In any case, you'll have to use one gallon of paint for each 115.2 square feet of surface.

Waste Factors

Be sure to consider waste and spillage when you figure coverage rates. Professional painters waste very little paint. They rarely kick over a five-gallon paint bucket. But there's always some waste. My material coverage formulas include a typical waste allowance for each application method, whether it's brush, roller or spray. Of course, actual waste depends on the skill of your painters no matter what application method they use.

These are the waste factors I've built into the tables:

Brush	3 to 5%
Roll	5 to 10%
Airless spray	20 to 25%
Conventional spray.....	25 to 35%

Changes in Paint Formulation

In the late 1970s, the California State Air Resources Board established a "model rule" for lowering the solvent in oil-based paints. They mandated replacing solvent-based paint with water-based formulas. The objective was to lower the amount of solvents escaping into the air. This change in the formulation of oil-based paints is being adopted nationwide.

Changes in paint formulation will affect coverage rates and the cost for non-flat paints. Review actual coverage rates and paint prices and make adjustments where necessary before using the estimates in this book.

Column 3: Material Pricing

The third column in the cost tables shows the cost of materials. The "Slow," "Medium," and "Fast" prices in each table are based on the discounts usually offered by suppliers for volume purchases by contractor customers. The material discounts used in this book are defined in Figure 8.

The more paint a contractor buys over a given period, the greater the discount that contractor can expect. Most paint contractors get a discount of at least 20 percent off retail. Contractors buying in heavy volume usually get discounts that approach 40 percent off retail.

Material Pricing Tables

Figures 9, 10 and 11 show the material prices I've used for each of three application rates throughout this book. In the cost estimating tables each coating is identified by a material number. To find out more about the cost of any of these coatings, refer to the material number listed in Figure 9, 10 or 11.

Material prices at 20% discount

All pricing is based on production grade material purchased in 5 gallon quantities.

	Retail price guide	Contractor price at a 20% discount	Add 15% sundries & 10% escalation	Price with sales tax at 8%	Estimating prices with tax
Interior:					
Sealer, off white (wet area walls & ceilings)					
#1 - Water base	28.35	22.68	28.35	30.62	30.60
#2 - Oil base	40.10	32.08	40.10	43.31	43.30
Undercoat (doors, casings and other paint grade wood)					
#3 - Water base	34.50	27.60	34.50	37.26	37.30
#4 - Oil base	41.20	32.96	41.20	44.50	44.50
Flat latex (walls, ceilings & paint grade baseboard)					
#5 - Water base latex paint	31.55	25.24	31.55	34.07	34.10
Acoustic spray-on texture					
#6 - Primer	23.30	18.64	23.30	25.16	25.20
#7 - Finish	30.20	24.16	30.20	32.62	32.60
#8 - Dripowder mixed (pound)	1.10	0.88	1.10	1.19	1.19
Enamel (wet area walls & ceilings and openings)					
#9 - Water base enamel	43.95	35.16	43.95	47.47	47.50
#10 - Oil base enamel	68.40	54.72	68.40	73.87	73.90
System Estimate (cabinets, bookshelves, molding, interior windows)					
#11a - Wiping stain, oil base	53.05	42.44	53.05	57.29	57.30
#11b - Sanding sealer, lacquer	37.85	30.28	37.85	40.88	40.90
#11c - Lacquer, semi gloss	41.60	33.28	41.60	44.93	44.90
#11 - Stain, seal & 2 coat lacquer System					
Average cost (11a + b + (2 x c))		34.82	43.53	47.01	47.00
#12 - Shellac, clear	62.25	49.80	62.25	67.23	67.20
#13 - Penetrating oil stain	52.15	41.72	52.15	56.32	56.30
#14 - Penetrating stain wax (molding)	43.95	35.16	43.95	47.47	47.50
#15 - Wax, per pound (floors)	14.70	11.76	14.70	15.88	15.90
#16 - Glazing (mottling over enamel)	43.85	35.08	43.85	47.36	47.40
#17 - Spray can, each (HVAC registers)	10.20	8.16	10.20	11.02	11.00
Exterior:					
Solid body/color stain (beams, light valance, fascia, overhang, siding, plant-on trim, wood shelves)					
#18 - Water base stain	42.65	34.12	42.65	46.06	46.10
#19 - Oil base stain	47.55	38.04	47.55	51.35	51.40
Semi-transparent stain (beams, siding, T & G ceiling)					
#20 - Water base stain	44.45	35.56	44.45	48.01	48.00
#21 - Oil base stain	43.90	35.12	43.90	47.41	47.40
#22 - Polyurethane (exterior doors)	74.15	59.32	74.15	80.08	80.10
#23 - Marine spar varnish, flat or gloss (exterior doors)					
Interior or exterior	76.05	60.84	76.05	82.13	82.10

Figure 9
Material prices at 20% discount

Material prices at 20% discount (cont.)

		Retail price guide	Contractor price at a 20% discount	Add 15% sundries & 10% escalation	Price with sales tax at 8%	Estimating prices with tax
Exterior enamel (exterior doors & trim)						
#24 -	Water base	45.40	36.32	45.40	49.03	49.00
#25 -	Oil base	59.60	47.68	59.60	64.37	64.40
Porch & deck enamel - interior or exterior						
#26 -	Water base enamel	47.90	38.32	47.90	51.73	51.70
#27 -	Oil base enamel	55.90	44.72	55.90	60.37	60.40
#28 -	Epoxy, 1 part, water base	65.20	52.16	65.20	70.42	70.40
#29 -	Epoxy, 2 part SYSTEM	96.25	77.00	96.25	103.95	104.00
System Estimate (exterior windows)						
#30a -	Wiping stain, oil base	51.40	41.12	51.40	55.51	55.50
#30b -	Sanding sealer, varnish	60.70	48.56	60.70	65.56	65.60
#30c -	Varnish, flat or gloss	79.05	63.24	79.05	85.37	85.40
#30 -	Stain, seal & 1 coat varnish SYSTEM					
	Average cost (30a + b + c))		50.97	63.71	68.81	68.80
Masonry paint (masonry, concrete, plaster)						
#31 -	Water base, flat or gloss	40.55	32.44	40.55	43.79	43.80
#32 -	Oil base paint	45.15	36.12	45.15	48.76	48.80
#33 -	Block filler	30.50	24.40	30.50	32.94	32.90
#34 -	Waterproofing, clear hydro seal	37.80	30.24	37.80	40.82	40.80
Metal primer, rust inhibitor						
#35 -	Clean metal	56.35	45.08	56.35	60.86	60.90
#36 -	Rusty metal	73.20	58.56	73.20	79.06	79.10
Metal finish, synthetic enamel, gloss, interior or exterior						
#37 -	Off white	57.30	45.84	57.30	61.88	61.90
#38 -	Colors (except orange/red)	60.50	48.40	60.50	65.34	65.30
Anti-graffiti stain eliminator						
#39 -	Water base primer & sealer	39.30	31.44	39.30	42.44	42.40
#40 -	Oil base primer & sealer	43.60	34.88	43.60	47.09	47.10
#41 -	Polyurethane 2 part SYSTEM	145.30	116.24	145.30	156.92	156.90
Preperation:						
#42 -	Caulking, per fluid ounce	0.35	0.28	0.35	0.38	0.38
Paint remover, per gallon						
#43 -	Light duty	36.95	29.56	36.95	39.91	39.90
#44 -	Heavy duty	39.65	31.72	39.65	42.82	42.80
#45 -	Putty, per pound	6.85	5.48	6.85	7.40	7.40
#46 -	Silica sand, per pound	0.65	0.52	0.65	0.70	0.70
#47 -	Visqueen, 1.5 mil, 12' x 200' roll	39.90	31.92	39.90	43.09	43.10
#48 -	Wood filler, per gallon	43.05	34.44	43.05	46.49	46.50

Figure 9 (continued)
Material prices at 20% discount

Material prices at 20% discount (cont.)

	Retail price guide	Contractor price at a 20% discount	Add 15% sundries & 10% escalation	Price with sales tax at 8%	Estimating prices with tax
Industrial:					
#49 - Acid wash (muriatic acid)	12.45	9.96	12.45	13.45	13.50
#50 - Aluminum base paint	96.00	76.80	96.00	103.68	103.70
Epoxy coating, 2 part SYSTEM					
#51 - Clear	143.50	114.80	143.50	154.98	155.00
#52 - White	148.60	118.88	148.60	160.49	160.50
Heat resistant enamel					
#53 - 800 to 1200 degree range	127.35	101.88	127.35	137.54	137.50
#54 - 300 to 800 degree range	112.00	89.60	112.00	120.96	121.00
#55 - Industrial bonding & penetrating oil paint	51.05	40.84	51.05	55.13	55.10
Industrial enamel, oil base, high gloss					
#56 - Light colors	58.80	47.04	58.80	63.50	63.50
#57 - Dark (OSHA) colors	76.25	61.00	76.25	82.35	82.40
#58 - Industrial waterproofing	40.15	32.12	40.15	43.36	43.40
#59 - Vinyl coating (tanks)	126.00	100.80	126.00	136.08	136.10
Wallcovering:					
Ready-mix:					
#60 - Light-weight vinyl (gal)	12.84	10.27	12.84	13.87	13.90
#61 - Heavy weight vinyl (gal)	14.35	11.48	14.35	15.50	15.50
#62 - Cellulose, clear (gal)	13.65	10.92	13.65	14.74	14.70
#63 - Vinyl to vinyl (gal)	21.95	17.56	21.95	23.71	23.70
#64 - Powdered cellulose, 2 - 4 ounces	6.90	5.52	6.90	7.45	7.50
#65 - Powdered vinyl, 2 - 4 ounces	8.10	6.48	8.10	8.75	8.80
#66 - Powdered wheat paste, 2-4 ounces	5.90	4.72	5.90	6.37	6.40
Note: Typically, powdered paste is in 2 to 4 ounce packages which will adhere 6 to 12 rolls of wallcovering.					

Figure 9 (continued)
Material prices at 20% discount

	Labor SF per manhour	Material coverage SF/gallon	Material cost per gallon	Labor cost per 100 SF	Labor burden 100 SF	Material cost per 100 SF	Overhead per 100 SF	Profit per 100 SF	Total price per 100 SF
Floors, concrete, spray, interior or exterior									
Masonry (concrete) paint, water base (material #31)									
Spray 1st coat									
Slow	800	175	43.80	2.59	.63	25.03	5.37	5.38	39.00
Medium	900	163	38.30	3.00	.86	23.50	6.84	4.11	38.31
Fast	1000	150	32.80	3.40	1.20	21.87	8.21	2.43	37.11
Spray 2nd coat									
Slow	900	275	43.80	2.31	.55	15.93	3.57	3.58	25.94
Medium	1000	263	38.30	2.70	.78	14.56	4.51	2.71	25.26
Fast	1100	250	32.80	3.09	1.10	13.12	5.36	1.59	24.26
Spray 3rd or additional coats									
Slow	1000	325	43.80	2.08	.49	13.48	3.05	3.06	22.16
Medium	1100	313	38.30	2.45	.72	12.24	3.85	2.31	21.57
Fast	1200	300	32.80	2.83	.99	10.93	4.58	1.35	20.68
Masonry (concrete) paint, oil base (material #32)									
Spray 1st coat									
Slow	800	200	48.80	2.59	.63	24.40	5.25	5.26	38.13
Medium	900	188	42.70	3.00	.86	22.71	6.65	3.99	37.21
Fast	1000	175	36.60	3.40	1.20	20.91	7.91	2.34	35.76
Spray 2nd coat									
Slow	900	300	48.80	2.31	.55	16.27	3.63	3.64	26.40
Medium	1000	288	42.70	2.70	.78	14.83	4.58	2.75	25.64
Fast	1100	275	36.60	3.09	1.10	13.31	5.42	1.60	24.52
Spray 3rd or additional coats									
Slow	1000	350	48.80	2.08	.49	13.94	3.14	3.15	22.80
Medium	1100	338	42.70	2.45	.72	12.63	3.95	2.37	22.12
Fast	1200	325	36.60	2.83	.99	11.26	4.68	1.38	21.14

Also use these formulas for concrete steps, stair treads, porches and patios. "Slow" work is based on an hourly wage of \$20.75, "Medium" work on an hourly wage of \$27.00, and "Fast" work on an hourly wage of \$34.00. Other qualifications that apply to this table are on page 9.

National Painting Cost Estimator

	Labor SF per manhour	Material coverage SF/gallon	Material cost per gallon	Labor cost per 100 SF	Labor burden 100 SF	Material cost per 100 SF	Overhead per 100 SF	Profit per 100 SF	Total price per 100 SF
Floors, concrete, penetrating stain, interior or exterior									
Penetrating oil stain (material #13)									
Roll 1st coat									
Slow	225	450	56.30	9.22	2.20	12.51	4.55	4.56	33.04
Medium	250	425	49.30	10.80	3.12	11.60	6.38	3.83	35.73
Fast	275	400	42.20	12.36	4.38	10.55	8.45	2.50	38.24
Roll 2nd coat									
Slow	325	500	56.30	6.38	1.54	11.26	3.64	3.65	26.47
Medium	345	475	49.30	7.83	2.26	10.38	5.12	3.07	28.66
Fast	365	450	42.20	9.32	3.28	9.38	6.82	2.02	30.82
Roll 3rd and additional coats									
Slow	365	525	56.30	5.68	1.37	10.72	3.37	3.38	24.52
Medium	383	500	49.30	7.05	2.03	9.86	4.74	2.84	26.52
Fast	400	475	42.20	8.50	3.00	8.88	6.32	1.87	28.57

Also use these formulas for concrete steps, stair treads, porches and patios. "Slow" work is based on an hourly wage of \$20.75, "Medium" work on an hourly wage of \$27.00, and "Fast" work on an hourly wage of \$34.00. Other qualifications that apply to this table are on page 9.

	Labor SF per manhour	Material coverage SF/gallon	Material cost per gallon	Labor cost per 100 SF	Labor burden 100 SF	Material cost per 100 SF	Overhead per 100 SF	Profit per 100 SF	Total price per 100 SF
Floors, wood, interior or exterior, paint grade, brush application									
Undercoat, water base (material #3)									
Brush prime coat									
Slow	275	450	37.30	7.55	1.82	8.29	3.35	3.36	24.37
Medium	300	425	32.60	9.00	2.59	7.67	4.82	2.89	26.97
Fast	325	400	28.00	10.46	3.71	7.00	6.56	1.94	29.67
Undercoat, oil base (material #4)									
Brush prime coat									
Slow	275	500	44.50	7.55	1.82	8.90	3.47	3.48	25.22
Medium	300	475	38.90	9.00	2.59	8.19	4.95	2.97	27.70
Fast	325	450	33.40	10.46	3.71	7.42	6.69	1.98	30.26
Porch & deck enamel, water base (material #26)									
Brush 1st and additional finish coats									
Slow	300	475	51.70	6.92	1.65	10.88	3.70	3.71	26.86
Medium	325	450	45.30	8.31	2.41	10.07	5.20	3.12	29.11
Fast	350	425	38.80	9.71	3.45	9.13	6.90	2.04	31.23
Porch & deck enamel, oil base (material #27)									
Brush 1st and additional finish coats									
Slow	300	550	60.40	6.92	1.65	10.98	3.72	3.72	26.99
Medium	325	525	52.80	8.31	2.41	10.06	5.19	3.12	29.09
Fast	350	500	45.30	9.71	3.45	9.06	6.88	2.04	31.14
Epoxy, 1 part, water base (material #28)									
Brush each coat									
Slow	125	450	70.40	16.60	3.98	15.64	6.88	6.90	50.00
Medium	163	425	61.60	16.56	4.77	14.49	8.96	5.38	50.16
Fast	200	400	52.80	17.00	6.00	13.20	11.22	3.32	50.74
Epoxy, 2 part system (material #29)									
Brush each coat									
Slow	100	425	104.00	20.75	4.98	24.47	9.54	9.56	69.30
Medium	138	400	91.00	19.57	5.66	22.75	12.00	7.20	67.18
Fast	175	375	78.00	19.43	6.84	20.80	14.60	4.32	65.99

"Slow" work is based on an hourly wage of \$20.75, "Medium" work on an hourly wage of \$27.00, and "Fast" work on an hourly wage of \$34.00. Other qualifications that apply to this table are on page 9.

National Painting Cost Estimator

	Labor SF per manhour	Material coverage SF/gallon	Material cost per gallon	Labor cost per 100 SF	Labor burden 100 SF	Material cost per 100 SF	Overhead per 100 SF	Profit per 100 SF	Total price per 100 SF
Floors, wood, interior or exterior, paint grade, roll application									
Undercoat, water base (material #3)									
Roll prime coat									
Slow	400	425	37.30	5.19	1.24	8.78	2.89	2.90	21.00
Medium	438	400	32.60	6.16	1.77	8.15	4.02	2.41	22.51
Fast	475	375	28.00	7.16	2.55	7.47	5.32	1.57	24.07
Undercoat, oil base (material #4)									
Roll prime coat									
Slow	400	475	44.50	5.19	1.24	9.37	3.00	3.01	21.81
Medium	438	450	38.90	6.16	1.77	8.64	4.15	2.49	23.21
Fast	475	425	33.40	7.16	2.55	7.86	5.44	1.61	24.62
Porch & deck enamel, water base (material #26)									
Roll 1st or additional finish coats									
Slow	425	475	51.70	4.88	1.17	10.88	3.22	3.22	23.37
Medium	463	450	45.30	5.83	1.69	10.07	4.40	2.64	24.63
Fast	500	425	38.80	6.80	2.40	9.13	5.68	1.68	25.69
Porch & deck enamel, oil base (material #27)									
Roll 1st or additional finish coats									
Slow	425	525	60.40	4.88	1.17	11.50	3.33	3.34	24.22
Medium	463	500	52.80	5.83	1.69	10.56	4.52	2.71	25.31
Fast	500	475	45.30	6.80	2.40	9.54	5.81	1.72	26.27
Epoxy, 1 part, water base (material #28)									
Brush each coat									
Slow	200	425	70.40	10.38	2.49	16.56	5.59	5.60	40.62
Medium	250	400	61.60	10.80	3.12	15.40	7.33	4.40	41.05
Fast	300	375	52.80	11.33	3.99	14.08	9.12	2.70	41.22
Epoxy, 2 part system (material #29)									
Brush each coat									
Slow	175	400	104.00	11.86	2.83	26.00	7.73	7.75	56.17
Medium	225	375	91.00	12.00	3.45	24.27	9.94	5.96	55.62
Fast	275	350	78.00	12.36	4.38	22.29	12.09	3.58	54.70

"Slow" work is based on an hourly wage of \$20.75, "Medium" work on an hourly wage of \$27.00, and "Fast" work on an hourly wage of \$34.00. Other qualifications that apply to this table are on page 9.

General Painting Costs

	Labor SF per manhour	Material coverage SF/gallon	Material cost per gallon	Labor cost per 100 SF	Labor burden 100 SF	Material cost per 100 SF	Overhead per 100 SF	Profit per 100 SF	Total price per 100 SF
Floors, wood, interior or exterior, stain grade									
Wiping stain, varnish, oil base (material #30a)									
Stain, brush 1st coat, wipe & fill									
Slow	225	500	55.50	9.22	2.20	11.10	4.28	4.29	31.09
Medium	250	475	48.60	10.80	3.12	10.23	6.04	3.62	33.81
Fast	275	450	41.60	12.36	4.38	9.24	8.05	2.38	36.41
Stain, brush 2nd coat, wipe & fill									
Slow	400	525	55.50	5.19	1.24	10.57	3.23	3.24	23.47
Medium	425	500	48.60	6.35	1.83	9.72	4.48	2.69	25.07
Fast	450	475	41.60	7.56	2.65	8.76	5.89	1.74	26.60
Stain, brush 3rd or additional coats, wipe & fill									
Slow	425	550	55.50	4.88	1.17	10.09	3.07	3.07	22.28
Medium	450	525	48.60	6.00	1.73	9.26	4.25	2.55	23.79
Fast	475	500	41.60	7.16	2.55	8.32	5.58	1.65	25.26
Sanding sealer, varnish (material #30b)									
Maple or pine, brush 1 coat									
Slow	375	475	65.60	5.53	1.34	13.81	3.93	3.94	28.55
Medium	400	450	57.40	6.75	1.95	12.76	5.37	3.22	30.05
Fast	425	425	49.20	8.00	2.81	11.58	6.94	2.05	31.38
Maple or pine, brush 2nd or additional coats									
Slow	425	550	65.60	4.88	1.17	11.93	3.42	3.42	24.82
Medium	450	525	57.40	6.00	1.73	10.93	4.67	2.80	26.13
Fast	475	500	49.20	7.16	2.55	9.84	6.05	1.79	27.39
Oak, brush 1 coat									
Slow	400	525	65.60	5.19	1.24	12.50	3.60	3.61	26.14
Medium	425	500	57.40	6.35	1.83	11.48	4.92	2.95	27.53
Fast	450	475	49.20	7.56	2.65	10.36	6.38	1.89	28.84
Oak, brush 2nd or additional coats									
Slow	500	625	65.60	4.15	1.00	10.50	2.97	2.98	21.60
Medium	525	600	57.40	5.14	1.47	9.57	4.05	2.43	22.66
Fast	550	575	49.20	6.18	2.19	8.56	5.25	1.55	23.73
Shellac, clear (material #12)									
Brush 1st coat									
Slow	275	475	67.20	7.55	1.82	14.15	4.47	4.48	32.47
Medium	300	450	58.80	9.00	2.59	13.07	6.17	3.70	34.53
Fast	325	425	50.40	10.46	3.71	11.86	8.06	2.38	36.47
Brush 2nd or additional coats									
Slow	400	500	67.20	5.19	1.24	13.44	3.78	3.79	27.44
Medium	425	475	58.80	6.35	1.83	12.38	5.14	3.09	28.79
Fast	450	450	50.40	7.56	2.65	11.20	6.64	1.96	30.01

National Painting Cost Estimator

	Labor SF per manhour	Material coverage SF/gallon	Material cost per gallon	Labor cost per 100 SF	Labor burden 100 SF	Material cost per 100 SF	Overhead per 100 SF	Profit per 100 SF	Total price per 100 SF
Varnish, gloss or flat (material #30c)									
Brush 1st coat									
Slow	275	475	85.40	7.55	1.82	17.98	5.19	5.20	37.74
Medium	300	450	74.70	9.00	2.59	16.60	7.05	4.23	39.47
Fast	325	425	64.00	10.46	3.71	15.06	9.06	2.68	40.97
Brush 2nd or additional coats									
Slow	350	600	85.40	5.93	1.43	14.23	4.10	4.11	29.80
Medium	375	575	74.70	7.20	2.09	12.99	5.57	3.34	31.19
Fast	400	550	64.00	8.50	3.00	11.64	7.17	2.12	32.43
Penetrating stain wax & wipe (material #14)									
Stain, brush 1st coat & wipe									
Slow	200	550	47.50	10.38	2.49	8.64	4.09	4.10	29.70
Medium	250	525	41.50	10.80	3.12	7.90	5.46	3.27	30.55
Fast	300	500	35.60	11.33	3.99	7.12	6.96	2.06	31.46
Stain, brush 2nd or additional coats & wipe									
Slow	250	600	47.50	8.30	1.99	7.92	3.46	3.47	25.14
Medium	300	575	41.50	9.00	2.59	7.22	4.71	2.82	26.34
Fast	350	550	35.60	9.71	3.45	6.47	6.08	1.80	27.51
Wax & polish (material #15)									
Hand apply 1 coat									
Slow	175	1000	15.90	11.86	2.83	1.59	3.10	3.10	22.48
Medium	200	950	13.90	13.50	3.90	1.46	4.72	2.83	26.41
Fast	225	900	11.90	15.11	5.31	1.32	6.75	2.00	30.49
Buffing with machine									
Slow	400	--	--	5.19	1.24	--	1.22	1.23	8.88
Medium	450	--	--	6.00	1.73	--	1.93	1.16	10.82
Fast	500	--	--	6.80	2.40	--	2.85	.84	12.89

"Slow" work is based on an hourly wage of \$20.75, "Medium" work on an hourly wage of \$27.00, and "Fast" work on an hourly wage of \$34.00. Other qualifications that apply to this table are on page 9.

	Manhours per door	Gallons per Door	Material cost per gallon	Labor cost per door	Labor burden door	Material cost per door	Overhead per door	Profit per door	Total price per door
Garage door backs, seal coat, spray one coat									
Sanding sealer, lacquer (material #11b)									
1 car garage, 8' x 7'									
Slow	0.30	0.40	40.90	6.23	1.49	16.36	4.58	4.59	33.25
Medium	0.25	0.50	35.80	6.75	1.95	17.90	6.65	3.99	37.24
Fast	0.20	0.60	30.70	6.80	2.40	18.42	8.56	2.53	38.71
2 car garage, 16' x 7'									
Slow	0.40	0.80	40.90	8.30	1.99	32.72	8.17	8.19	59.37
Medium	0.35	0.90	35.80	9.45	2.73	32.22	11.10	6.66	62.16
Fast	0.30	1.00	30.70	10.20	3.60	30.70	13.80	4.08	62.38
3 car garage, 16' x 7' + 8' x 7'									
Slow	0.60	1.00	40.90	12.45	2.99	40.90	10.70	10.73	77.77
Medium	0.55	1.10	35.80	14.85	4.29	39.38	14.63	8.78	81.93
Fast	0.50	1.20	30.70	17.00	6.00	36.84	18.55	5.49	83.88

Use the figures for Siding when estimating the cost of painting garage door fronts. These figures assume a one-car garage door measures 7' x 8' and a two-car garage door measures 7' x 16'. A three-car garage has one single and one double door. Government funded projects (FHA, VA, HUD) usually require sealing the garage door back on new construction projects. The doors are usually sprayed along with the cabinet sealer coat (as used in this table) or stained along with the exterior trim. "Slow" work is based on an hourly wage of \$20.75, "Medium" work on an hourly wage of \$27.00, and "Fast" work on an hourly wage of \$34.00. Other qualifications that apply to this table are on page 9.

National Painting Cost Estimator

	Labor LF per manhour	Material coverage LF/gallon	Material cost per gallon	Labor cost per 100 LF	Labor burden 100 LF	Material cost per 100 LF	Overhead per 100 LF	Profit per 100 LF	Total price per 100 LF
Gutters and downspouts (galvanized), brush application									
Gutters									
Metal prime, rust inhibitor, clean metal (material #35)									
Brush prime coat									
Slow	80	400	60.90	25.94	6.22	15.23	9.01	9.03	65.43
Medium	90	375	53.30	30.00	8.66	14.21	13.22	7.93	74.02
Fast	100	350	45.60	34.00	12.00	13.03	18.30	5.41	82.74
Metal prime, rust inhibitor, rusty metal (material #36)									
Brush prime coat									
Slow	80	400	79.10	25.94	6.22	19.78	9.87	9.89	71.70
Medium	90	375	69.20	30.00	8.66	18.45	14.28	8.57	79.96
Fast	100	350	59.30	34.00	12.00	16.94	19.51	5.77	88.22
Metal finish - synthetic enamel (off white), gloss (material #37)									
Brush 1st finish coat									
Slow	100	425	61.90	20.75	4.98	14.56	7.66	7.67	55.62
Medium	110	400	54.20	24.55	7.08	13.55	11.30	6.78	63.26
Fast	120	375	46.40	28.33	9.99	12.37	15.72	4.65	71.06
Brush 2nd or additional finish coats									
Slow	120	450	61.90	17.29	4.14	13.76	6.69	6.70	48.58
Medium	130	425	54.20	20.77	5.99	12.75	9.88	5.93	55.32
Fast	140	400	46.40	24.29	8.55	11.60	13.78	4.08	62.30
Metal finish - synthetic enamel (colors except orange/red), gloss (material #38)									
Brush 1st finish coat									
Slow	100	425	65.30	20.75	4.98	15.36	7.81	7.82	56.72
Medium	110	400	57.20	24.55	7.08	14.30	11.49	6.89	64.31
Fast	120	375	49.00	28.33	9.99	13.07	15.93	4.71	72.03
Brush 2nd or additional finish coats									
Slow	120	450	65.30	17.29	4.14	14.51	6.83	6.84	49.61
Medium	130	425	57.20	20.77	5.99	13.46	10.06	6.03	56.31
Fast	140	400	49.00	24.29	8.55	12.25	13.98	4.14	63.21
Downspouts									
Metal prime, rust inhibitor, clean metal (material #35)									
Brush prime coat									
Slow	30	250	60.90	69.17	16.59	24.36	20.92	20.97	152.01
Medium	35	225	53.30	77.14	22.28	23.69	30.78	18.47	172.36
Fast	40	200	45.60	85.00	30.00	22.80	42.72	12.64	193.16
Metal prime, rust inhibitor, rusty metal (material #36)									
Brush prime coat									
Slow	30	250	79.10	69.17	16.59	31.64	22.31	22.36	162.07
Medium	35	225	69.20	77.14	22.28	30.76	32.55	19.53	182.26
Fast	40	200	59.30	85.00	30.00	29.65	44.84	13.27	202.76

General Painting Costs

	Labor LF per manhour	Material coverage LF/gallon	Material cost per gallon	Labor cost per 100 LF	Labor burden 100 LF	Material cost per 100 LF	Overhead per 100 LF	Profit per 100 LF	Total price per 100 LF
Metal finish - synthetic enamel (off white), gloss (material #37)									
Brush 1st finish coat									
Slow	50	275	61.90	41.50	9.96	22.51	14.05	14.08	102.10
Medium	60	250	54.20	45.00	13.01	21.68	19.92	11.95	111.56
Fast	70	225	46.40	48.57	17.16	20.62	26.77	7.92	121.04
Brush 2nd or additional finish coats									
Slow	70	300	61.90	29.64	7.13	20.63	10.90	10.92	79.22
Medium	80	275	54.20	33.75	9.75	19.71	15.80	9.48	88.49
Fast	90	250	46.40	37.78	13.33	18.56	21.60	6.39	97.66
Metal finish - synthetic enamel (colors except orange/red), gloss (material #38)									
Brush 1st finish coat									
Slow	50	275	65.30	41.50	9.96	23.75	14.29	14.32	103.82
Medium	60	250	57.20	45.00	13.01	22.88	20.22	12.13	113.24
Fast	70	225	49.00	48.57	17.16	21.78	27.13	8.02	122.66
Brush 2nd or additional finish coats									
Slow	70	300	65.30	29.64	7.13	21.77	11.12	11.14	80.80
Medium	80	275	57.20	33.75	9.75	20.80	16.08	9.65	90.03
Fast	90	250	49.00	37.78	13.33	19.60	21.92	6.48	99.11

NOTE: Oil base material is recommended for any metal surface. Although water base material is often used, it may cause oxidation, corrosion and rust. These figures assume that all exposed surfaces of 5" gutters and 4" downspouts are painted. For ornamental gutters and downspouts, multiply the linear feet by 1.5 before using these figures. "Slow" work is based on an hourly wage of \$20.75, "Medium" work on an hourly wage of \$27.00, and "Fast" work on an hourly wage of \$34.00. Other qualifications that apply to this table are on page 9.

High Time Difficulty Factors

Painting takes longer and may require more material when heights above the floor exceed 8 feet. The additional time and material for working at these heights and using a roller pole or a wand on a spray gun, climbing up and down a ladder or scaffolding is applied by using one of the factors listed below. The wall area above 8 feet is typically referred to as the "Clip." To apply the high time difficulty factor, measure the surface above 8 feet which is to be painted and multiply that figure by the appropriate factor. This measurement can be listed on a separate line of your take-off and the appropriate price can be applied for a total.

For labor calculations only:

- Add 30% to the area for heights between 8 and 13 feet (multiply by 1.3)
- Add 60% to the area for heights from 13 to 17 feet (multiply by 1.6)
- Add 90% to the area for heights from 17 to 19 feet (multiply by 1.9)
- Add 120% to the area for heights from 19 to 21 feet (multiply by 2.2)

EXAMPLE: A 17 x 14 living room has a vaulted ceiling 13 feet high. Your take-off sheet might look like this:

Walls to 8 feet: $136 + 112 + 136 + 112 = 496$ SF

Clip: $[(5 \times 14) / 2] \times 2 + (5 \times 17) = 70 + 85 = 155$ SF

area of two triangles + rectangular area

$155 \text{ SF} \times 1.3$ (high time difficulty factor) = 202 SF

Then multiply each SF total by the appropriate price per square foot.

Mail box structures, wood, apartment type

Measure the length of each board to be painted and use the manhours and material given for Trellis or Plant-on trim or Siding.

	Labor SF per manhour	Material coverage SF/gallon	Material cost per gallon	Labor cost per 100 SF	Labor burden 100 SF	Material cost per 100 SF	Overhead per 100 SF	Profit per 100 SF	Total price per 100 SF
Masonry, anti-graffiti stain eliminator on smooth or rough surface									
Water base primer and sealer (material #39)									
Roll & brush each coat									
Slow	350	400	42.40	5.93	1.43	10.60	3.41	3.42	24.79
Medium	375	375	37.10	7.20	2.09	9.89	4.79	2.88	26.85
Fast	400	350	31.80	8.50	3.00	9.09	6.38	1.89	28.86
Oil base primer and sealer (material #40)									
Roll & brush each coat									
Slow	350	375	47.10	5.93	1.43	12.56	3.78	3.79	27.49
Medium	375	350	41.20	7.20	2.09	11.77	5.26	3.16	29.48
Fast	400	325	35.30	8.50	3.00	10.86	6.93	2.05	31.34
Polyurethane 2 part system (material #41)									
Roll & brush each coat									
Slow	300	375	156.90	6.92	1.65	41.84	9.58	9.60	69.59
Medium	325	350	137.30	8.31	2.41	39.23	12.49	7.49	69.93
Fast	350	325	117.70	9.71	3.45	36.22	15.30	4.53	69.21

Use these figures for new brick, used brick, or Concrete Masonry Units (CMU) where the block surfaces are either smooth or rough, porous or unfilled, with joints struck to average depth. The more porous the surface, the rougher the texture, the more time and material will be required. "Slow" work is based on an hourly wage of \$20.75, "Medium" work on an hourly wage of \$27.00, and "Fast" work on an hourly wage of \$34.00. Other qualifications that apply to this table are on page 9.

General Painting Costs

	Labor SF per manhour	Material coverage SF/gallon	Material cost per gallon	Labor cost per 100 SF	Labor burden 100 SF	Material cost per 100 SF	Overhead per 100 SF	Profit per 100 SF	Total price per 100 SF
Masonry, block filler									
Brush 1 coat (material #33)									
Slow	95	75	32.90	21.84	5.25	43.87	13.48	13.51	97.95
Medium	125	65	28.80	21.60	6.24	44.31	18.04	10.82	101.01
Fast	155	55	24.70	21.94	7.73	44.91	23.12	6.84	104.54
Roll 1 coat (material #33)									
Slow	190	70	32.90	10.92	2.61	47.00	11.50	11.53	83.56
Medium	215	60	28.80	12.56	3.62	48.00	16.05	9.63	89.86
Fast	240	50	24.70	14.17	5.01	49.40	21.26	6.29	96.13
Spray 1 coat (material #33)									
Slow	425	65	32.90	4.88	1.17	50.62	10.77	10.79	78.23
Medium	525	55	28.80	5.14	1.47	52.36	14.75	8.85	82.57
Fast	625	45	24.70	5.44	1.92	54.89	19.30	5.71	87.26

Use these figures for using block filler on rough or porous masonry with joints struck to average depth. "Slow" work is based on an hourly wage of \$20.75, "Medium" work on an hourly wage of \$27.00, and "Fast" work on an hourly wage of \$34.00. Other qualifications that apply to this table are on page 9.

	Labor SF per manhour	Material coverage SF/gallon	Material cost per gallon	Labor cost per 100 SF	Labor burden 100 SF	Material cost per 100 SF	Overhead per 100 SF	Profit per 100 SF	Total price per 100 SF
Masonry, brick, new, smooth-surface, brush									
Masonry paint, water base, flat or gloss (material #31)									
Brush 1st coat									
Slow	200	300	43.80	10.38	2.49	14.60	5.22	5.23	37.92
Medium	225	275	38.30	12.00	3.45	13.93	7.35	4.41	41.14
Fast	250	250	32.80	13.60	4.80	13.12	9.77	2.89	44.18
Brush 2nd or additional coats									
Slow	250	325	43.80	8.30	1.99	13.48	4.52	4.53	32.82
Medium	275	300	38.30	9.82	2.85	12.77	6.36	3.81	35.61
Fast	300	275	32.80	11.33	3.99	11.93	8.45	2.50	38.20
Masonry paint, oil base (material #32)									
Brush 1st coat									
Slow	200	350	48.80	10.38	2.49	13.94	5.09	5.10	37.00
Medium	225	325	42.70	12.00	3.45	13.14	7.15	4.29	40.03
Fast	250	300	36.60	13.60	4.80	12.20	9.49	2.81	42.90
Brush 2nd or additional coats									
Slow	250	400	48.80	8.30	1.99	12.20	4.27	4.28	31.04
Medium	275	363	42.70	9.82	2.85	11.76	6.11	3.66	34.20
Fast	300	325	36.60	11.33	3.99	11.26	8.24	2.44	37.26

Use these figures for new smooth-surface brick with joints struck to average depth. "Slow" work is based on an hourly wage of \$20.75, "Medium" work on an hourly wage of \$27.00, and "Fast" work on an hourly wage of \$34.00. Other qualifications that apply to this table are on page 9.

National Painting Cost Estimator

	Labor SF per manhour	Material coverage SF/gallon	Material cost per gallon	Labor cost per 100 SF	Labor burden 100 SF	Material cost per 100 SF	Overhead per 100 SF	Profit per 100 SF	Total price per 100 SF
Walls, gypsum drywall, smooth-wall finish, roll, per 100 SF of wall area									
Flat latex, water base (material #5)									
Roll 1st coat									
Slow	300	325	34.10	6.92	1.65	10.49	3.62	3.63	26.31
Medium	513	313	29.80	5.26	1.53	9.52	4.08	2.45	22.84
Fast	725	300	25.60	4.69	1.66	8.53	4.61	1.36	20.85
Roll 2nd coat									
Slow	375	375	34.10	5.53	1.34	9.09	3.03	3.04	22.03
Medium	563	363	29.80	4.80	1.39	8.21	3.60	2.16	20.16
Fast	750	350	25.60	4.53	1.59	7.31	4.17	1.23	18.83
Roll 3rd or additional coats									
Slow	450	400	34.10	4.61	1.10	8.53	2.71	2.71	19.66
Medium	625	388	29.80	4.32	1.25	7.68	3.31	1.99	18.55
Fast	800	375	25.60	4.25	1.50	6.83	3.90	1.15	17.63
Sealer (drywall), water base (material #1)									
Roll prime coat									
Slow	245	350	30.60	8.47	2.03	8.74	3.66	3.66	26.56
Medium	485	325	26.80	5.57	1.60	8.25	3.86	2.31	21.59
Fast	725	300	23.00	4.69	1.66	7.67	4.35	1.29	19.66
Sealer (drywall), oil base (material #2)									
Roll prime coat									
Slow	245	325	43.30	8.47	2.03	13.32	4.53	4.54	32.89
Medium	485	300	37.90	5.57	1.60	12.63	4.95	2.97	27.72
Fast	725	275	32.50	4.69	1.66	11.82	5.63	1.67	25.47
Enamel, water base (material #9)									
Roll 1st finish coat									
Slow	235	325	47.50	8.83	2.13	14.62	4.86	4.87	35.31
Medium	438	313	41.50	6.16	1.77	13.26	5.30	3.18	29.67
Fast	640	300	35.60	5.31	1.87	11.87	5.91	1.75	26.71
Roll 2nd or additional finish coats									
Slow	280	350	47.50	7.41	1.78	13.57	4.32	4.33	31.41
Medium	465	338	41.50	5.81	1.67	12.28	4.94	2.97	27.67
Fast	680	325	35.60	5.00	1.76	10.95	5.49	1.62	24.82
Enamel, oil base (material #10)									
Roll 1st finish coat									
Slow	235	300	73.90	8.83	2.13	24.63	6.76	6.77	49.12
Medium	438	288	64.60	6.16	1.77	22.43	7.59	4.56	42.51
Fast	640	275	55.40	5.31	1.87	20.15	8.47	2.51	38.31

General Painting Costs

	Labor SF per manhour	Material coverage SF/gallon	Material cost per gallon	Labor cost per 100 SF	Labor burden 100 SF	Material cost per 100 SF	Overhead per 100 SF	Profit per 100 SF	Total price per 100 SF
Roll 2nd or additional finish coats									
Slow	280	325	73.90	7.41	1.78	22.74	6.07	6.08	44.08
Medium	465	313	64.60	5.81	1.67	20.64	7.03	4.22	39.37
Fast	680	300	55.40	5.00	1.76	18.47	7.82	2.31	35.36
Epoxy coating, 2 part system - white (material #52)									
Roll 1st coat									
Slow	375	400	160.50	5.53	1.34	40.13	8.93	8.95	64.88
Medium	550	375	140.40	4.91	1.42	37.44	10.94	6.57	61.28
Fast	750	350	120.40	4.53	1.59	34.40	12.56	3.72	56.80
Roll 2nd or additional coats									
Slow	450	425	160.50	4.61	1.10	37.76	8.26	8.28	60.01
Medium	625	400	140.40	4.32	1.25	35.10	10.17	6.10	56.94
Fast	800	375	120.40	4.25	1.50	32.11	11.74	3.47	53.07

Measurements are based on the square feet of wall coated. Do not deduct for openings less than 100 square feet. These figures assume paint products are being applied over a smooth finish. For heights above 8 feet, use the High Time Difficulty Factors on page 139. These figures include brushing-in at corners when all walls are the same color, and at ceilings that are the same color or finished with acoustic spray-on texture. ADD for cutting-in at ceilings if they're a different color than the walls, or at corners where walls in the same room are painted different colors. Do not include cutting-in time for ceilings unless you're only painting the ceilings, not the walls. "Slow" work is based on an hourly wage of \$20.75, "Medium" work on an hourly wage of \$27.00, and "Fast" work on an hourly wage of \$34.00. Other qualifications that apply to this table are on page 9.

National Painting Cost Estimator

	Labor SF per manhour	Material coverage SF/gallon	Material cost per gallon	Labor cost per 100 SF	Labor burden 100 SF	Material cost per 100 SF	Overhead per 100 SF	Profit per 100 SF	Total price per 100 SF
Walls, gypsum drywall, smooth-wall finish, spray, per 100 SF of wall area									
Flat latex, water base (material #5)									
Spray 1st coat									
Slow	750	300	34.10	2.77	.65	11.37	2.81	2.82	20.42
Medium	850	275	29.80	3.18	.93	10.84	3.74	2.24	20.93
Fast	950	250	25.60	3.58	1.25	10.24	4.67	1.38	21.12
Spray 2nd coat									
Slow	850	350	34.10	2.44	.60	9.74	2.43	2.43	17.64
Medium	950	325	29.80	2.84	.81	9.17	3.21	1.92	17.95
Fast	1050	300	25.60	3.24	1.13	8.53	4.00	1.18	18.08
Spray 3rd or additional coats									
Slow	950	375	34.10	2.18	.52	9.09	2.24	2.24	16.27
Medium	1050	350	29.80	2.57	.74	8.51	2.96	1.77	16.55
Fast	1150	325	25.60	2.96	1.04	7.88	3.68	1.09	16.65
Sealer (drywall), water base (material #1)									
Spray prime coat									
Slow	600	300	30.60	3.46	.84	10.20	2.75	2.76	20.01
Medium	775	275	26.80	3.48	1.01	9.75	3.56	2.14	19.94
Fast	950	250	23.00	3.58	1.25	9.20	4.35	1.29	19.67
Sealer (drywall), oil base (material #2)									
Spray prime coat									
Slow	600	275	43.30	3.46	.84	15.75	3.81	3.82	27.68
Medium	775	250	37.90	3.48	1.01	15.16	4.91	2.95	27.51
Fast	950	225	32.50	3.58	1.25	14.44	5.98	1.77	27.02
Enamel, water base (material #9)									
Spray 1st finish coat									
Slow	525	300	47.50	3.95	.94	15.83	3.94	3.95	28.61
Medium	713	275	41.50	3.79	1.08	15.09	5.00	3.00	27.96
Fast	900	250	35.60	3.78	1.33	14.24	6.00	1.77	27.12
Spray 2nd or additional finish coats									
Slow	600	300	47.50	3.46	.84	15.83	3.82	3.83	27.78
Medium	788	288	41.50	3.43	.99	14.41	4.71	2.82	26.36
Fast	975	275	35.60	3.49	1.25	12.95	5.48	1.62	24.79

General Painting Costs

	Labor SF per manhour	Material coverage SF/gallon	Material cost per gallon	Labor cost per 100 SF	Labor burden 100 SF	Material cost per 100 SF	Overhead per 100 SF	Profit per 100 SF	Total price per 100 SF
Enamel, oil base (material #10)									
Spray 1st finish coat									
Slow	525	275	73.90	3.95	.94	26.87	6.04	6.05	43.85
Medium	713	263	64.60	3.79	1.08	24.56	7.36	4.42	41.21
Fast	900	250	55.40	3.78	1.33	22.16	8.45	2.50	38.22
Spray 2nd or additional finish coats									
Slow	600	300	73.90	3.46	.84	24.63	5.49	5.51	39.93
Medium	788	288	64.60	3.43	.99	22.43	6.71	4.03	37.59
Fast	975	275	55.40	3.49	1.25	20.15	7.71	2.28	34.88

Measurements are based on the square feet of wall coated. Do not deduct for openings less than 100 square feet. These figures assume paint products are being applied over a smooth finish. For heights above 8 feet, use the High Time Difficulty Factors on page 139. These figures include spraying at corners when all walls are the same color, and at ceiling-to-wall intersection when ceilings are the same color. ADD for cutting-in at ceilings and protecting adjacent surfaces from overspray if they're a different color than the walls, or at corners where walls in the same room are painted different colors. Do not include cutting-in time for ceilings unless you're only painting the ceilings, not the walls. "Slow" work is based on an hourly wage of \$20.75, "Medium" work on an hourly wage of \$27.00, and "Fast" work on an hourly wage of \$34.00. Other qualifications that apply to this table are on page 9.

Walls, plaster, exterior: see Plaster and stucco

	Labor SF per manhour	Material coverage SF/gallon	Material cost per gallon	Labor cost per 100 SF	Labor burden 100 SF	Material cost per 100 SF	Overhead per 100 SF	Profit per 100 SF	Total price per 100 SF
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Walls, plaster, interior, medium texture, per 100 SF of wall area

Anti-graffiti stain eliminator

Water base primer and sealer (material #39)

Roll & brush each coat

Slow	375	425	42.40	5.53	1.34	9.98	3.20	3.21	23.26
Medium	400	400	37.10	6.75	1.95	9.28	4.50	2.70	25.18
Fast	425	375	31.80	8.00	2.81	8.48	5.98	1.77	27.04

Oil base primer and sealer (material #40)

Roll & brush each coat

Slow	375	400	47.10	5.53	1.34	11.78	3.54	3.55	25.74
Medium	400	375	41.20	6.75	1.95	10.99	4.92	2.95	27.56
Fast	425	350	35.30	8.00	2.81	10.09	6.48	1.92	29.30

Polyurethane 2 part system (material #41)

Roll & brush each coat

Slow	325	375	156.90	6.38	1.54	41.84	9.45	9.47	68.68
Medium	350	350	137.30	7.71	2.24	39.23	12.29	7.38	68.85
Fast	375	325	117.70	9.07	3.21	36.22	15.03	4.45	67.98

Measurements are based on the square feet of wall coated. Do not deduct for openings less than 100 square feet. These figures assume paint products are being applied over a smooth or medium texture finish. For heights above 8 feet, use the High Time Difficulty Factors on page 139. "Slow" work is based on an hourly wage of \$20.75, "Medium" work on an hourly wage of \$27.00, and "Fast" work on an hourly wage of \$34.00. Other qualifications that apply to this table are on page 9.

General Painting Costs

	Labor SF per manhour	Material coverage SF/gallon	Material cost per gallon	Labor cost per 100 SF	Labor burden 100 SF	Material cost per 100 SF	Overhead per 100 SF	Profit per 100 SF	Total price per 100 SF
Walls, plaster, interior, medium texture, brush, per 100 SF of wall area									
Flat latex, water base (material #5)									
Brush 1st coat									
Slow	125	300	34.10	16.60	3.98	11.37	6.07	6.08	44.10
Medium	150	288	29.80	18.00	5.21	10.35	8.39	5.03	46.98
Fast	175	275	25.60	19.43	6.84	9.31	11.04	3.26	49.88
Brush 2nd coat									
Slow	150	325	34.10	13.83	3.33	10.49	5.25	5.26	38.16
Medium	168	313	29.80	16.07	4.64	9.52	7.56	4.53	42.32
Fast	185	300	25.60	18.38	6.51	8.53	10.35	3.06	46.83
Brush 3rd or additional coats									
Slow	160	350	34.10	12.97	3.11	9.74	4.91	4.92	35.65
Medium	185	338	29.80	14.59	4.24	8.82	6.91	4.14	38.70
Fast	210	325	25.60	16.19	5.71	7.88	9.23	2.73	41.74
Enamel, water base (material #9)									
Brush 1st finish coat									
Slow	100	300	47.50	20.75	4.98	15.83	7.90	7.91	57.37
Medium	125	288	41.50	21.60	6.24	14.41	10.56	6.34	59.15
Fast	150	275	35.60	22.67	8.01	12.95	13.52	4.00	61.15
Brush 2nd finish coat									
Slow	125	325	47.50	16.60	3.98	14.62	6.69	6.70	48.59
Medium	143	313	41.50	18.88	5.45	13.26	9.40	5.64	52.63
Fast	160	300	35.60	21.25	7.50	11.87	12.59	3.72	56.93
Brush 3rd or additional finish coats									
Slow	135	350	47.50	15.37	3.70	13.57	6.20	6.21	45.05
Medium	160	338	41.50	16.88	4.87	12.28	8.51	5.11	47.65
Fast	185	325	35.60	18.38	6.51	10.95	11.10	3.28	50.22
Enamel, oil base (material #10)									
Brush 1st finish coat									
Slow	100	325	73.90	20.75	4.98	22.74	9.21	9.23	66.91
Medium	125	313	64.60	21.60	6.24	20.64	12.12	7.27	67.87
Fast	150	300	55.40	22.67	8.01	18.47	15.23	4.51	68.89
Brush 2nd finish coat									
Slow	125	400	73.90	16.60	3.98	18.48	7.42	7.44	53.92
Medium	143	375	64.60	18.88	5.45	17.23	10.39	6.24	58.19
Fast	160	350	55.40	21.25	7.50	15.83	13.82	4.09	62.49

National Painting Cost Estimator

	Labor SF per manhour	Material coverage SF/gallon	Material cost per gallon	Labor cost per 100 SF	Labor burden 100 SF	Material cost per 100 SF	Overhead per 100 SF	Profit per 100 SF	Total price per 100 SF
Brush 3rd or additional finish coats									
Slow	135	425	73.90	15.37	3.70	17.39	6.93	6.94	50.33
Medium	160	400	64.60	16.88	4.87	16.15	9.48	5.69	53.07
Fast	185	375	55.40	18.38	6.51	14.77	12.29	3.64	55.59
Stipple finish									
Slow	125	--	--	16.60	3.98	--	3.91	3.92	28.41
Medium	143	--	--	18.88	5.45	--	6.09	3.65	34.07
Fast	160	--	--	21.25	7.50	--	8.91	2.64	40.30
Epoxy coating, 2 part system - white (material #52)									
Brush 1st coat									
Slow	150	400	160.50	13.83	3.33	40.13	10.88	10.91	79.08
Medium	165	388	140.40	16.36	4.73	36.19	14.32	8.59	80.19
Fast	185	375	120.40	18.38	6.51	32.11	17.66	5.22	79.88
Brush 2nd or additional coats									
Slow	160	425	160.50	12.97	3.11	37.76	10.23	10.25	74.32
Medium	185	413	140.40	14.59	4.24	34.00	13.20	7.92	73.95
Fast	210	400	120.40	16.19	5.71	30.10	16.12	4.77	72.89
Glazing & mottling over enamel (material #16)									
Brush each coat									
Slow	50	900	47.40	41.50	9.96	5.27	10.78	10.80	78.31
Medium	65	800	41.50	41.54	11.98	5.19	14.69	8.81	82.21
Fast	80	700	35.50	42.50	15.00	5.07	19.40	5.74	87.71
Stipple									
Slow	100	--	--	20.75	4.98	--	4.89	4.90	35.52
Medium	113	--	--	23.89	6.91	--	7.70	4.62	43.12
Fast	125	--	--	27.20	9.60	--	11.41	3.37	51.58

Measurements are based on the square feet of wall coated. Do not deduct for openings less than 100 square feet. These figures assume paint products are being applied over a smooth or medium texture finish. For heights above 8 feet, use the High Time Difficulty Factors on page 139. These figures include brushing-in at corners when all walls are the same color, and at ceilings that are the same color or finished with acoustic spray-on texture. ADD for cutting-in at ceilings if they're a different color than the walls, or at corners where walls in the same room are painted different colors. Do not include cutting-in time for ceilings unless you're only painting the ceilings, not the walls. "Slow" work is based on an hourly wage of \$20.75, "Medium" work on an hourly wage of \$27.00, and "Fast" work on an hourly wage of \$34.00. Other qualifications that apply to this table are on page 9.

General Painting Costs

	Labor SF per manhour	Material coverage SF/gallon	Material cost per gallon	Labor cost per 100 SF	Labor burden 100 SF	Material cost per 100 SF	Overhead per 100 SF	Profit per 100 SF	Total price per 100 SF
Walls, plaster, interior, medium texture, roll, per 100 SF of wall area									
Flat latex, water base (material #5)									
Roll 1st coat									
Slow	225	250	34.10	9.22	2.20	13.64	4.76	4.77	34.59
Medium	438	238	29.80	6.16	1.77	12.52	5.12	3.07	28.64
Fast	650	225	25.60	5.23	1.85	11.38	5.72	1.69	25.87
Roll 2nd coat									
Slow	250	300	34.10	8.30	1.99	11.37	4.12	4.12	29.90
Medium	463	288	29.80	5.83	1.69	10.35	4.47	2.68	25.02
Fast	675	275	25.60	5.04	1.77	9.31	5.00	1.48	22.60
Roll 3rd or additional coats									
Slow	275	325	34.10	7.55	1.82	10.49	3.77	3.78	27.41
Medium	500	313	29.80	5.40	1.56	9.52	4.12	2.47	23.07
Fast	725	300	25.60	4.69	1.66	8.53	4.61	1.36	20.85
Enamel, water base (material #9)									
Roll 1st finish coat									
Slow	200	250	47.50	10.38	2.49	19.00	6.06	6.07	44.00
Medium	413	238	41.50	6.54	1.88	17.44	6.47	3.88	36.21
Fast	625	225	35.60	5.44	1.92	15.82	7.19	2.13	32.50
Roll 2nd finish coat									
Slow	225	300	47.50	9.22	2.20	15.83	5.18	5.19	37.62
Medium	438	288	41.50	6.16	1.77	14.41	5.59	3.35	31.28
Fast	650	275	35.60	5.23	1.85	12.95	6.21	1.84	28.08
Roll 3rd or additional finish coats									
Slow	250	325	47.50	8.30	1.99	14.62	4.73	4.74	34.38
Medium	475	313	41.50	5.68	1.66	13.26	5.15	3.09	28.84
Fast	700	300	35.60	4.86	1.72	11.87	5.72	1.69	25.86
Enamel, oil base (material #10)									
Roll 1st finish coat									
Slow	200	275	73.90	10.38	2.49	26.87	7.55	7.57	54.86
Medium	413	263	64.60	6.54	1.88	24.56	8.25	4.95	46.18
Fast	625	250	55.40	5.44	1.92	22.16	9.15	2.71	41.38
Roll 2nd finish coat									
Slow	225	350	73.90	9.22	2.20	21.11	6.18	6.20	44.91
Medium	438	325	64.60	6.16	1.77	19.88	6.96	4.17	38.94
Fast	650	300	55.40	5.23	1.85	18.47	7.92	2.34	35.81

National Painting Cost Estimator

	Labor SF per manhour	Material coverage SF/gallon	Material cost per gallon	Labor cost per 100 SF	Labor burden 100 SF	Material cost per 100 SF	Overhead per 100 SF	Profit per 100 SF	Total price per 100 SF
Roll 3rd or additional finish coats									
Slow	250	375	73.90	8.30	1.99	19.71	5.70	5.71	41.41
Medium	475	350	64.60	5.68	1.66	18.46	6.45	3.87	36.12
Fast	700	325	55.40	4.86	1.72	17.05	7.33	2.17	33.13
Epoxy coating, 2 part system - white (material #52)									
Roll 1st coat									
Slow	250	350	160.50	8.30	1.99	45.86	10.67	10.69	77.51
Medium	463	335	140.40	5.83	1.69	41.91	12.36	7.41	69.20
Fast	675	320	120.40	5.04	1.77	37.63	13.78	4.08	62.30
Roll 2nd or additional coats									
Slow	275	400	160.50	7.55	1.82	40.13	9.40	9.42	68.32
Medium	500	375	140.40	5.40	1.56	37.44	11.10	6.66	62.16
Fast	725	350	120.40	4.69	1.66	34.40	12.63	3.74	57.12

Measurements are based on the square feet of wall coated. Do not deduct for openings less than 100 square feet. These figures assume paint products are being applied over a smooth or medium texture finish. For heights above 8 feet, use the High Time Difficulty Factors on page 139. These figures include brushing-in at corners when all walls are the same color, and at ceilings that are the same color or finished with acoustic spray-on texture. ADD for cutting-in at ceilings if they're a different color than the walls, or at corners where walls in the same room are painted different colors. Do not include cutting-in time for ceilings unless you're only painting the ceilings, not the walls. "Slow" work is based on an hourly wage of \$20.75, "Medium" work on an hourly wage of \$27.00, and "Fast" work on an hourly wage of \$34.00. Other qualifications that apply to this table are on page 9.

	Labor SF per manhour	Material coverage SF/gallon	Material cost per gallon	Labor cost per 100 SF	Labor burden 100 SF	Material cost per 100 SF	Overhead per 100 SF	Profit per 100 SF	Total price per 100 SF
Walls, plaster, interior, medium texture, spray, per 100 SF of wall area									
Flat latex, water base (material #5)									
Spray 1st coat									
Slow	475	350	34.10	4.37	1.06	9.74	2.88	2.89	20.94
Medium	600	313	29.80	4.50	1.31	9.52	3.83	2.30	21.46
Fast	725	275	25.60	4.69	1.66	9.31	4.85	1.44	21.95
Spray 2nd coat									
Slow	525	400	34.10	3.95	.94	8.53	2.55	2.56	18.53
Medium	675	350	29.80	4.00	1.15	8.51	3.42	2.05	19.13
Fast	825	300	25.60	4.12	1.45	8.53	4.37	1.29	19.76
Spray 3rd or additional coats									
Slow	575	450	34.10	3.61	.87	7.58	2.29	2.30	16.65
Medium	750	388	29.80	3.60	1.03	7.68	3.08	1.85	17.24
Fast	925	325	25.60	3.68	1.29	7.88	3.99	1.18	18.02
Enamel, water base (material #9)									
Spray 1st finish coat									
Slow	450	350	47.50	4.61	1.10	13.57	3.67	3.67	26.62
Medium	575	313	41.50	4.70	1.36	13.26	4.83	2.90	27.05
Fast	700	275	35.60	4.86	1.72	12.95	6.05	1.79	27.37
Spray 2nd finish coat									
Slow	500	400	47.50	4.15	1.00	11.88	3.24	3.24	23.51
Medium	650	350	41.50	4.15	1.21	11.86	4.30	2.58	24.10
Fast	800	300	35.60	4.25	1.50	11.87	5.46	1.62	24.70
Spray 3rd or additional finish coats									
Slow	550	450	47.50	3.77	.91	10.56	2.89	2.90	21.03
Medium	750	388	41.50	3.60	1.03	10.70	3.84	2.30	21.47
Fast	900	325	35.60	3.78	1.33	10.95	4.98	1.47	22.51
Enamel, oil base (material #10)									
Spray 1st finish coat									
Slow	450	400	73.90	4.61	1.10	18.48	4.60	4.61	33.40
Medium	575	363	64.60	4.70	1.36	17.80	5.97	3.58	33.41
Fast	700	325	55.40	4.86	1.72	17.05	7.33	2.17	33.13
Spray 2nd finish coat									
Slow	500	425	73.90	4.15	1.00	17.39	4.28	4.29	31.11
Medium	650	388	64.60	4.15	1.21	16.65	5.50	3.30	30.81
Fast	800	350	55.40	4.25	1.50	15.83	6.69	1.98	30.25

National Painting Cost Estimator

	Labor SF per manhour	Material coverage SF/gallon	Material cost per gallon	Labor cost per 100 SF	Labor burden 100 SF	Material cost per 100 SF	Overhead per 100 SF	Profit per 100 SF	Total price per 100 SF
Tank, silo, vessel, or hopper, roll, exterior walls only									
Metal primer, rust inhibitor - clean metal (material #35)									
Roll prime coat									
Slow	275	400	60.90	7.55	1.82	15.23	4.67	4.68	33.95
Medium	300	375	53.30	9.00	2.59	14.21	6.45	3.87	36.12
Fast	325	350	45.60	10.46	3.71	13.03	8.43	2.49	38.12
Metal primer, rust inhibitor - rusty metal (material #36)									
Roll prime coat									
Slow	275	380	79.10	7.55	1.82	20.82	5.73	5.75	41.67
Medium	300	355	69.20	9.00	2.59	19.49	7.77	4.66	43.51
Fast	325	330	59.30	10.46	3.71	17.97	9.96	2.95	45.05
Industrial enamel, oil base, high gloss - light colors (material #56)									
Roll 1st or additional finish coats									
Slow	375	425	63.50	5.53	1.34	14.94	4.14	4.15	30.10
Medium	400	400	55.60	6.75	1.95	13.90	5.65	3.39	31.64
Fast	425	375	47.60	8.00	2.81	12.69	7.29	2.16	32.95
Industrial enamel, oil base, high gloss - dark (OSHA) colors (material #57)									
Roll 1st or additional finish coats									
Slow	375	450	82.40	5.53	1.34	18.31	4.78	4.79	34.75
Medium	400	425	72.10	6.75	1.95	16.96	6.42	3.85	35.93
Fast	425	400	61.80	8.00	2.81	15.45	8.14	2.41	36.81
Epoxy coating, 2 part system, clear (material #51)									
Roll 1st coat									
Slow	275	425	155.00	7.55	1.82	36.47	8.71	8.73	63.28
Medium	300	400	135.60	9.00	2.59	33.90	11.38	6.83	63.70
Fast	325	375	116.20	10.46	3.71	30.99	13.99	4.14	63.29
Roll 2nd or additional coats									
Slow	375	450	155.00	5.53	1.34	34.44	7.85	7.86	57.02
Medium	400	425	135.60	6.75	1.95	31.91	10.15	6.09	56.85
Fast	425	400	116.20	8.00	2.81	29.05	12.36	3.66	55.88

	Labor SF per manhour	Material coverage SF/gallon	Material cost per gallon	Labor cost per 100 SF	Labor burden 100 SF	Material cost per 100 SF	Overhead per 100 SF	Profit per 100 SF	Total price per 100 SF
Epoxy coating, 2 part system, white (material #52)									
Roll 1st coat									
Slow	275	425	160.50	7.55	1.82	37.76	8.95	8.97	65.05
Medium	300	400	140.40	9.00	2.59	35.10	11.68	7.01	65.38
Fast	325	375	120.40	10.46	3.71	32.11	14.34	4.24	64.86
Roll 2nd or additional coats									
Slow	375	450	160.50	5.53	1.34	35.67	8.08	8.10	58.72
Medium	400	425	140.40	6.75	1.95	33.04	10.44	6.26	58.44
Fast	425	400	120.40	8.00	2.81	30.10	12.69	3.75	57.35

See Figure 24 on page 399 to find the surface area of a spherical vessel. Use this table when estimating walls only. The cost tables for painting steel tank, silo, vessel or hopper roofs follow those for painting walls. For heights above 8 feet, use the High Time Difficulty Factors on page 139. Note: A two coat system, prime and finish, using oil base material is recommended for any metal surface. Using water base material may cause oxidation, corrosion and rust. One coat of oil base paint on metal surfaces may result in cracking, peeling or chipping without the proper prime coat application. If off-white or another light-colored finish paint is specified, make sure the prime coat is also a light color, or more than one finish coat will be necessary. "Slow" work is based on an hourly wage of \$20.75, "Medium" work on an hourly wage of \$27.00, and "Fast" work on an hourly wage of \$34.00. Other qualifications that apply to this table are on page 9.

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	Labor SF per manhour	Material coverage SF/gallon	Material cost per gallon	Labor cost per 100 SF	Labor burden 100 SF	Material cost per 100 SF	Overhead per 100 SF	Profit per 100 SF	Total price per 100 SF
Tank, silo, vessel, or hopper, spray, exterior walls only									
Metal primer, rust inhibitor - clean metal (material #35)									
Spray prime coat									
Slow	700	325	60.90	2.96	.72	18.74	4.26	4.27	30.95
Medium	750	300	53.30	3.60	1.03	17.77	5.60	3.36	31.36
Fast	800	275	45.60	4.25	1.50	16.58	6.92	2.05	31.30
Metal primer, rust inhibitor - rusty metal (material #36)									
Spray prime coat									
Slow	700	300	79.10	2.96	.72	26.37	5.71	5.72	41.48
Medium	750	275	69.20	3.60	1.03	25.16	7.45	4.47	41.71
Fast	800	250	59.30	4.25	1.50	23.72	9.14	2.70	41.31
Industrial enamel, oil base, high gloss - light colors (material #56)									
Spray 1st or additional finish coats									
Slow	850	350	63.50	2.44	.60	18.14	4.02	4.03	29.23
Medium	900	325	55.60	3.00	.86	17.11	5.25	3.15	29.37
Fast	950	300	47.60	3.58	1.25	15.87	6.42	1.90	29.02
Industrial enamel, oil base, high gloss - dark (OSHA) colors (material #57)									
Spray 1st or additional finish coats									
Slow	850	375	82.40	2.44	.60	21.97	4.75	4.76	34.52
Medium	900	350	72.10	3.00	.86	20.60	6.12	3.67	34.25
Fast	950	325	61.80	3.58	1.25	19.02	7.40	2.19	33.44
Epoxy coating, 2 part system, clear (material #51)									
Spray 1st coat									
Slow	700	325	155.00	2.96	.72	47.69	9.76	9.78	70.91
Medium	750	313	135.60	3.60	1.03	43.32	11.99	7.19	67.13
Fast	800	300	116.20	4.25	1.50	38.73	13.79	4.08	62.35
Spray 2nd or additional coats									
Slow	850	350	155.00	2.44	.60	44.29	8.99	9.01	65.33
Medium	900	338	135.60	3.00	.86	40.12	11.00	6.60	61.58
Fast	950	325	116.20	3.58	1.25	35.75	12.58	3.72	56.88
Epoxy coating, 2 part system, white (material #52)									
Spray 1st coat									
Slow	700	325	160.50	2.96	.72	49.38	10.08	10.10	73.24
Medium	750	313	140.40	3.60	1.03	44.86	12.38	7.43	69.30
Fast	800	300	120.40	4.25	1.50	40.13	14.22	4.21	64.31
Spray 2nd or additional coats									
Slow	850	350	160.50	2.44	.60	45.86	9.29	9.31	67.50
Medium	900	338	140.40	3.00	.86	41.54	11.35	6.81	63.56
Fast	950	325	120.40	3.58	1.25	37.05	12.99	3.84	58.71

	Labor SF per manhour	Material coverage SF/gallon	Material cost per gallon	Labor cost per 100 SF	Labor burden 100 SF	Material cost per 100 SF	Overhead per 100 SF	Profit per 100 SF	Total price per 100 SF
Vinyl coating (material #59)									
Spray 1st coat									
Slow	600	225	136.10	3.46	.84	60.49	12.31	12.33	89.43
Medium	625	213	119.10	4.32	1.25	55.92	15.37	9.22	86.08
Fast	650	200	102.10	5.23	1.85	51.05	18.02	5.33	81.48
Spray 2nd or additional coats									
Slow	725	130	136.10	2.86	.69	104.69	20.57	20.61	149.42
Medium	750	105	119.10	3.60	1.03	113.43	29.52	17.71	165.29
Fast	775	80	102.10	4.39	1.54	127.63	41.41	12.25	187.22

See Figure 24 on page 399 to find the surface area of a spherical vessel. Use this table when estimating walls only. The cost tables for painting steel tank, silo, vessel or hopper roofs follow those for painting walls. For heights above 8 feet, use the High Time Difficulty Factors on page 139. Note: A two coat system, prime and finish, using oil base material is recommended for any metal surface. Using water base material may cause oxidation, corrosion and rust. One coat of oil base paint on metal surfaces may result in cracking, peeling or chipping without the proper prime coat application. If off-white or another light-colored finish paint is specified, make sure the prime coat is also a light color, or more than one finish coat will be necessary. "Slow" work is based on an hourly wage of \$20.75, "Medium" work on an hourly wage of \$27.00, and "Fast" work on an hourly wage of \$34.00. Other qualifications that apply to this table are on page 9.

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	Labor SF per manhour	Material coverage SF/gallon	Material cost per gallon	Labor cost per 100 SF	Labor burden 100 SF	Material cost per 100 SF	Overhead per 100 SF	Profit per 100 SF	Total price per 100 SF
Tank, silo, vessel, or hopper, brush, exterior roof only									
Metal primer, rust inhibitor - clean metal (material #35)									
Brush prime coat									
Slow	175	425	60.90	11.86	2.83	14.33	5.52	5.53	40.07
Medium	200	400	53.30	13.50	3.90	13.33	7.68	4.61	43.02
Fast	225	375	45.60	15.11	5.31	12.16	10.11	2.99	45.68
Metal primer, rust inhibitor - rusty metal (material #36)									
Brush prime coat									
Slow	175	400	79.10	11.86	2.83	19.78	6.55	6.57	47.59
Medium	200	375	69.20	13.50	3.90	18.45	8.96	5.38	50.19
Fast	225	350	59.30	15.11	5.31	16.94	11.59	3.43	52.38
Industrial enamel, oil base, high gloss - light colors (material #56)									
Brush 1st or additional finish coats									
Slow	225	450	63.50	9.22	2.20	14.11	4.85	4.86	35.24
Medium	250	425	55.60	10.80	3.12	13.08	6.75	4.05	37.80
Fast	275	400	47.60	12.36	4.38	11.90	8.87	2.62	40.13
Industrial enamel, oil base, high gloss - dark (OSHA) colors (material #57)									
Brush 1st or additional finish coats									
Slow	225	475	82.40	9.22	2.20	17.35	5.47	5.48	39.72
Medium	250	450	72.10	10.80	3.12	16.02	7.49	4.49	41.92
Fast	275	425	61.80	12.36	4.38	14.54	9.69	2.87	43.84
Epoxy coating, 2 part system, clear (material #51)									
Brush 1st coat									
Slow	175	425	155.00	11.86	2.83	36.47	9.72	9.74	70.62
Medium	200	400	135.60	13.50	3.90	33.90	12.83	7.70	71.83
Fast	225	375	116.20	15.11	5.31	30.99	15.94	4.72	72.07
Brush 2nd or additional coats									
Slow	225	450	155.00	9.22	2.20	34.44	8.72	8.73	63.31
Medium	250	425	135.60	10.80	3.12	31.91	11.46	6.87	64.16
Fast	275	400	116.20	12.36	4.38	29.05	14.19	4.20	64.18
Epoxy coating, 2 part system, white (material #52)									
Brush 1st coat									
Slow	175	425	160.50	11.86	2.83	37.76	9.97	9.99	72.41
Medium	200	400	140.40	13.50	3.90	35.10	13.13	7.88	73.51
Fast	225	375	120.40	15.11	5.31	32.11	16.29	4.82	73.64
Brush 2nd or additional coats									
Slow	225	450	160.50	9.22	2.20	35.67	8.95	8.97	65.01
Medium	250	425	140.40	10.80	3.12	33.04	11.74	7.04	65.74
Fast	275	400	120.40	12.36	4.38	30.10	14.51	4.29	65.64

	Labor SF per manhour	Material coverage SF/gallon	Material cost per gallon	Labor cost per 100 SF	Labor burden 100 SF	Material cost per 100 SF	Overhead per 100 SF	Profit per 100 SF	Total price per 100 SF
Vinyl coating (material #59)									
Brush 1st coat									
Slow	125	250	136.10	16.60	3.98	54.44	14.25	14.28	103.55
Medium	150	238	119.10	18.00	5.21	50.04	18.31	10.99	102.55
Fast	175	225	102.10	19.43	6.84	45.38	22.22	6.57	100.44
Brush 2nd or additional coats									
Slow	200	150	136.10	10.38	2.49	90.73	19.68	19.72	143.00
Medium	225	125	119.10	12.00	3.45	95.28	27.69	16.61	155.03
Fast	250	100	102.10	13.60	4.80	102.10	37.36	11.05	168.91

Use these figures to estimate labor and material costs for painting the exterior surface of a flat roof on a steel tank, silo, vessel or hopper. *Rule of thumb*: For a vaulted, peaked or sloping roof, figure the roof area as though it were flat and add 5%. Note: A two coat system, prime and finish, using oil base material is recommended for any metal surface. Using water base material may cause oxidation, corrosion and rust. One coat of oil base paint on metal surfaces may result in cracking, peeling or chipping without the proper prime coat application. If off-white or another light-colored finish paint is specified, make sure the prime coat is also a light color, or more than one finish coat will be necessary. "Slow" work is based on an hourly wage of \$20.75, "Medium" work on an hourly wage of \$27.00, and "Fast" work on an hourly wage of \$34.00. Other qualifications that apply to this table are on page 9.

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	Labor SF per manhour	Material coverage SF/gallon	Material cost per gallon	Labor cost per 100 SF	Labor burden 100 SF	Material cost per 100 SF	Overhead per 100 SF	Profit per 100 SF	Total price per 100 SF
Tank, silo, vessel, or hopper, roll, exterior roof only									
Metal primer, rust inhibitor - clean metal (material #35)									
Roll prime coat									
Slow	325	400	60.90	6.38	1.54	15.23	4.40	4.41	31.96
Medium	350	375	53.30	7.71	2.24	14.21	6.04	3.62	33.82
Fast	375	350	45.60	9.07	3.21	13.03	7.84	2.32	35.47
Metal primer, rust inhibitor - rusty metal (material #36)									
Roll prime coat									
Slow	325	380	79.10	6.38	1.54	20.82	5.46	5.47	39.67
Medium	350	355	69.20	7.71	2.24	19.49	7.36	4.41	41.21
Fast	375	330	59.30	9.07	3.21	17.97	9.37	2.77	42.39
Industrial enamel, oil base, high gloss - light colors (material #56)									
Roll 1st or additional finish coats									
Slow	400	425	63.50	5.19	1.24	14.94	4.06	4.07	29.50
Medium	425	400	55.60	6.35	1.83	13.90	5.52	3.31	30.91
Fast	450	375	47.60	7.56	2.65	12.69	7.11	2.10	32.11
Industrial enamel, oil base, high gloss - dark (OSHA) colors (material #57)									
Roll 1st or additional finish coats									
Slow	400	450	82.40	5.19	1.24	18.31	4.70	4.71	34.15
Medium	425	425	72.10	6.35	1.83	16.96	6.29	3.77	35.20
Fast	450	400	61.80	7.56	2.65	15.45	7.96	2.35	35.97
Epoxy coating, 2 part system, clear (material #51)									
Roll 1st coat									
Slow	325	425	155.00	6.38	1.54	36.47	8.43	8.45	61.27
Medium	350	400	135.60	7.71	2.24	33.90	10.96	6.58	61.39
Fast	375	375	116.20	9.07	3.21	30.99	13.41	3.97	60.65
Roll 2nd or additional coats									
Slow	400	450	155.00	5.19	1.24	34.44	7.77	7.78	56.42
Medium	425	425	135.60	6.35	1.83	31.91	10.03	6.02	56.14
Fast	450	400	116.20	7.56	2.65	29.05	12.18	3.60	55.04

	Labor SF per manhour	Material coverage SF/gallon	Material cost per gallon	Labor cost per 100 SF	Labor burden 100 SF	Material cost per 100 SF	Overhead per 100 SF	Profit per 100 SF	Total price per 100 SF
Epoxy coating, 2 part system, white (material #52)									
Roll 1st coat									
Slow	325	425	160.50	6.38	1.54	37.76	8.68	8.70	63.06
Medium	350	400	140.40	7.71	2.24	35.10	11.26	6.76	63.07
Fast	375	375	120.40	9.07	3.21	32.11	13.76	4.07	62.22
Roll 2nd or additional coats									
Slow	400	450	160.50	5.19	1.24	35.67	8.00	8.02	58.12
Medium	425	425	140.40	6.35	1.83	33.04	10.31	6.18	57.71
Fast	450	400	120.40	7.56	2.65	30.10	12.50	3.70	56.51

Use these figures to estimate labor and material costs for painting the exterior surface of a flat roof on a steel tank, silo, vessel or hopper. *Rule of thumb*: For a vaulted, peaked or sloping roof, figure the roof area as though it were flat and add 5%. Note: A two coat system, prime and finish, using oil base material is recommended for any metal surface. Using water base material may cause oxidation, corrosion and rust. One coat of oil base paint on metal surfaces may result in cracking, peeling or chipping without the proper prime coat application. If off-white or another light-colored finish paint is specified, make sure the prime coat is also a light color, or more than one finish coat will be necessary. "Slow" work is based on an hourly wage of \$20.75, "Medium" work on an hourly wage of \$27.00, and "Fast" work on an hourly wage of \$34.00. Other qualifications that apply to this table are on page 9.

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	Labor SF per manhour	Material coverage SF/gallon	Material cost per gallon	Labor cost per 100 SF	Labor burden 100 SF	Material cost per 100 SF	Overhead per 100 SF	Profit per 100 SF	Total price per 100 SF
Tank, silo, vessel, or hopper, spray, exterior roof only									
Metal primer, rust inhibitor - clean metal (material #35)									
Spray prime coat									
Slow	850	325	60.90	2.44	.60	18.74	4.14	4.15	30.07
Medium	900	300	53.30	3.00	.86	17.77	5.41	3.25	30.29
Fast	950	275	45.60	3.58	1.25	16.58	6.64	1.96	30.01
Metal primer, rust inhibitor - rusty metal (material #36)									
Spray prime coat									
Slow	850	300	79.10	2.44	.60	26.37	5.59	5.60	40.60
Medium	900	275	69.20	3.00	.86	25.16	7.26	4.35	40.63
Fast	950	250	59.30	3.58	1.25	23.72	8.85	2.62	40.02
Industrial enamel, oil base, high gloss - light colors (material #56)									
Spray 1st or additional finish coats									
Slow	950	300	63.50	2.18	.52	21.17	4.54	4.55	32.96
Medium	1025	275	55.60	2.63	.78	20.22	5.90	3.54	33.07
Fast	1100	250	47.60	3.09	1.10	19.04	7.20	2.13	32.56
Industrial enamel, oil base, high gloss - dark (OSHA) colors (material #57)									
Spray 1st or additional finish coats									
Slow	950	325	82.40	2.18	.52	25.35	5.33	5.34	38.72
Medium	1025	300	72.10	2.63	.78	24.03	6.86	4.11	38.41
Fast	1100	275	61.80	3.09	1.10	22.47	8.26	2.44	37.36
Epoxy coating, 2 part system, clear (material #51)									
Spray 1st coat									
Slow	850	325	155.00	2.44	.60	47.69	9.64	9.66	70.03
Medium	900	313	135.60	3.00	.86	43.32	11.80	7.08	66.06
Fast	950	300	116.20	3.58	1.25	38.73	13.51	4.00	61.07
Spray 2nd or additional coats									
Slow	950	350	155.00	2.18	.52	44.29	8.93	8.95	64.87
Medium	1025	338	135.60	2.63	.78	40.12	10.88	6.53	60.94
Fast	1100	325	116.20	3.09	1.10	35.75	12.38	3.66	55.98
Epoxy coating, 2 part system, white (material #52)									
Spray 1st coat									
Slow	850	325	160.50	2.44	.60	49.38	9.96	9.98	72.36
Medium	900	313	140.40	3.00	.86	44.86	12.18	7.31	68.21
Fast	950	300	120.40	3.58	1.25	40.13	13.94	4.12	63.02
Spray 2nd or additional coats									
Slow	950	350	160.50	2.18	.52	45.86	9.23	9.25	67.04
Medium	1025	338	140.40	2.63	.78	41.54	11.23	6.74	62.92
Fast	1100	325	120.40	3.09	1.10	37.05	12.78	3.78	57.80

	Labor SF per manhour	Material coverage SF/gallon	Material cost per gallon	Labor cost per 100 SF	Labor burden 100 SF	Material cost per 100 SF	Overhead per 100 SF	Profit per 100 SF	Total price per 100 SF
Vinyl coating (material #59)									
Spray 1st coat									
Slow	750	225	136.10	2.77	.65	60.49	12.14	12.17	88.22
Medium	775	213	119.10	3.48	1.01	55.92	15.10	9.06	84.57
Fast	800	200	102.10	4.25	1.50	51.05	17.61	5.21	79.62
Spray 2nd or additional coats									
Slow	900	130	136.10	2.31	.55	104.69	20.43	20.48	148.46
Medium	950	105	119.10	2.84	.81	113.43	29.27	17.56	163.91
Fast	1000	80	102.10	3.40	1.20	127.63	40.99	12.13	185.35

Use these figures to estimate labor and material costs for painting the exterior surface of a flat roof on a steel tank, silo, vessel or hopper. *Rule of thumb*: For a vaulted, peaked or sloping roof, figure the roof area as though it were flat and add 5%. Note: A two coat system, prime and finish, using oil base material is recommended for any metal surface. Using water base material may cause oxidation, corrosion and rust. One coat of oil base paint on metal surfaces may result in cracking, peeling or chipping without the proper prime coat application. If off-white or another light-colored finish paint is specified, make sure the prime coat is also a light color, or more than one finish coat will be necessary. "Slow" work is based on an hourly wage of \$20.75, "Medium" work on an hourly wage of \$27.00, and "Fast" work on an hourly wage of \$34.00. Other qualifications that apply to this table are on page 9.

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	Labor SF per manhour	Material coverage SF/gallon	Material cost per gallon	Labor cost per 100 SF	Labor burden 100 SF	Material cost per 100 SF	Overhead per 100 SF	Profit per 100 SF	Total price per 100 SF
Walls, concrete tilt-up, brush application									
Flat latex, water base (material #5)									
Brush 1st coat									
Slow	150	300	34.10	13.83	3.33	11.37	5.42	5.43	39.38
Medium	188	263	29.80	14.36	4.15	11.33	7.46	4.48	41.78
Fast	225	225	25.60	15.11	5.31	11.38	9.86	2.92	44.58
Brush 2nd or additional coats									
Slow	200	360	34.10	10.38	2.49	9.47	4.24	4.25	30.83
Medium	225	305	29.80	12.00	3.45	9.77	6.31	3.79	35.32
Fast	250	250	25.60	13.60	4.80	10.24	8.88	2.63	40.15
Enamel, water base (material #9)									
Brush 1st coat									
Slow	150	275	47.50	13.83	3.33	17.27	6.54	6.55	47.52
Medium	188	238	41.50	14.36	4.15	17.44	8.99	5.39	50.33
Fast	225	200	35.60	15.11	5.31	17.80	11.85	3.51	53.58
Brush 2nd or additional coats									
Slow	200	360	47.50	10.38	2.49	13.19	4.95	4.96	35.97
Medium	225	243	41.50	12.00	3.45	17.08	8.14	4.88	45.55
Fast	250	225	35.60	13.60	4.80	15.82	10.61	3.14	47.97
Enamel, oil base (material #10)									
Brush 1st coat									
Slow	150	300	73.90	13.83	3.33	24.63	7.94	7.96	57.69
Medium	188	250	64.60	14.36	4.15	25.84	11.09	6.65	62.09
Fast	225	200	55.40	15.11	5.31	27.70	14.92	4.41	67.45
Brush 2nd or additional coats									
Slow	200	400	73.90	10.38	2.49	18.48	5.96	5.97	43.28
Medium	225	325	64.60	12.00	3.45	19.88	8.84	5.30	49.47
Fast	250	250	55.40	13.60	4.80	22.16	12.57	3.72	56.85
Epoxy coating, 2 part system, clear (material #51)									
Brush 1st coat									
Slow	150	330	155.00	13.83	3.33	46.97	12.18	12.21	88.52
Medium	188	290	135.60	14.36	4.15	46.76	16.32	9.79	91.38
Fast	225	250	116.20	15.11	5.31	46.48	20.75	6.14	93.79
Brush 2nd or additional coats									
Slow	200	380	155.00	10.38	2.49	40.79	10.20	10.22	74.08
Medium	225	340	135.60	12.00	3.45	39.88	13.84	8.30	77.47
Fast	250	300	116.20	13.60	4.80	38.73	17.71	5.24	80.08

Industrial, Institutional and Heavy Commercial Costs

	Labor SF per manhour	Material coverage SF/gallon	Material cost per gallon	Labor cost per 100 SF	Labor burden 100 SF	Material cost per 100 SF	Overhead per 100 SF	Profit per 100 SF	Total price per 100 SF
Epoxy coating, 2 part system, white (material #52)									
Brush 1st coat									
Slow	150	330	160.50	13.83	3.33	48.64	12.50	12.53	90.83
Medium	188	290	140.40	14.36	4.15	48.41	16.73	10.04	93.69
Fast	225	250	120.40	15.11	5.31	48.16	21.27	6.29	96.14
Brush 2nd or additional coats									
Slow	200	380	160.50	10.38	2.49	42.24	10.47	10.49	76.07
Medium	225	340	140.40	12.00	3.45	41.29	14.19	8.51	79.44
Fast	250	300	120.40	13.60	4.80	40.13	18.14	5.37	82.04
Waterproofing, clear hydro sealer (material #34)									
Brush 1st coat									
Slow	150	160	40.80	13.83	3.33	25.50	8.10	8.12	58.88
Medium	175	140	35.70	15.43	4.44	25.50	11.35	6.81	63.53
Fast	200	120	30.60	17.00	6.00	25.50	15.04	4.45	67.99
Brush 2nd or additional coats									
Slow	230	200	40.80	9.02	2.17	20.40	6.00	6.01	43.60
Medium	275	188	35.70	9.82	2.85	18.99	7.91	4.75	44.32
Fast	295	175	30.60	11.53	4.06	17.49	10.26	3.03	46.37
Industrial waterproofing (material #58)									
Brush 1st coat									
Slow	90	100	43.40	23.06	5.53	43.40	13.68	13.71	99.38
Medium	100	95	38.00	27.00	7.80	40.00	18.70	11.22	104.72
Fast	110	90	32.50	30.91	10.90	36.11	24.16	7.15	109.23
Brush 2nd or additional coats									
Slow	150	200	43.40	13.83	3.33	21.70	7.38	7.40	53.64
Medium	180	188	38.00	15.00	4.35	20.21	9.89	5.93	55.38
Fast	195	175	32.50	17.44	6.16	18.57	13.07	3.87	59.11

Use these figures to estimate the costs for finishing concrete walls which have a smooth surface (trowel), rough texture, or exposed aggregate finish. For wall heights above 10', increase the computed area by 50%. "Slow" work is based on an hourly wage of \$20.75, "Medium" work on an hourly wage of \$27.00, and "Fast" work on an hourly wage of \$34.00. Other qualifications that apply to this table are on page 9.

National Painting Cost Estimator

	Labor SF per manhour	Material coverage SF/gallon	Material cost per gallon	Labor cost per 100 SF	Labor burden 100 SF	Material cost per 100 SF	Overhead per 100 SF	Profit per 100 SF	Total price per 100 SF
Walls, concrete tilt-up, roll application									
Flat latex, water base (material #5)									
Roll 1st coat									
Slow	275	275	34.10	7.55	1.82	12.40	4.13	4.14	30.04
Medium	300	238	29.80	9.00	2.59	12.52	6.03	3.62	33.76
Fast	325	225	25.60	10.46	3.71	11.38	7.91	2.34	35.80
Roll 2nd or additional coats									
Slow	300	375	34.10	6.92	1.65	9.09	3.36	3.36	24.38
Medium	338	325	29.80	7.99	2.31	9.17	4.87	2.92	27.26
Fast	375	275	25.60	9.07	3.21	9.31	6.69	1.98	30.26
Enamel, water base (material #9)									
Roll 1st coat									
Slow	275	275	47.50	7.55	1.82	17.27	5.06	5.07	36.77
Medium	300	238	41.50	9.00	2.59	17.44	7.26	4.36	40.65
Fast	325	200	35.60	10.46	3.71	17.80	9.90	2.93	44.80
Roll 2nd or additional coats									
Slow	300	325	47.50	6.92	1.65	14.62	4.41	4.42	32.02
Medium	338	275	41.50	7.99	2.31	15.09	6.35	3.81	35.55
Fast	375	225	35.60	9.07	3.21	15.82	8.71	2.58	39.39
Enamel, oil base (material #10)									
Roll 1st coat									
Slow	275	260	73.90	7.55	1.82	28.42	7.18	7.19	52.16
Medium	300	210	64.60	9.00	2.59	30.76	10.59	6.35	59.29
Fast	325	160	55.40	10.46	3.71	34.63	15.12	4.47	68.39
Roll 2nd or additional coats									
Slow	300	350	73.90	6.92	1.65	21.11	5.64	5.65	40.97
Medium	338	300	64.60	7.99	2.31	21.53	7.96	4.77	44.56
Fast	375	250	55.40	9.07	3.21	22.16	10.67	3.16	48.27
Epoxy coating, 2 part system, clear (material #51)									
Roll 1st coat									
Slow	275	290	155.00	7.55	1.82	53.45	11.93	11.96	86.71
Medium	300	250	135.60	9.00	2.59	54.24	16.46	9.88	92.17
Fast	325	210	116.20	10.46	3.71	55.33	21.54	6.37	97.41
Roll 2nd or additional coats									
Slow	300	380	155.00	6.92	1.65	40.79	9.38	9.40	68.14
Medium	338	340	135.60	7.99	2.31	39.88	12.55	7.53	70.26
Fast	375	300	116.20	9.07	3.21	38.73	15.81	4.68	71.50

Industrial, Institutional and Heavy Commercial Costs

	Labor SF per manhour	Material coverage SF/gallon	Material cost per gallon	Labor cost per 100 SF	Labor burden 100 SF	Material cost per 100 SF	Overhead per 100 SF	Profit per 100 SF	Total price per 100 SF
Epoxy coating, 2 part system, white (material #52)									
Roll 1st coat									
Slow	275	290	160.50	7.55	1.82	55.34	12.29	12.32	89.32
Medium	300	250	140.40	9.00	2.59	56.16	16.94	10.16	94.85
Fast	325	210	120.40	10.46	3.71	57.33	22.16	6.55	100.21
Roll 2nd or additional coats									
Slow	300	380	160.50	6.92	1.65	42.24	9.66	9.68	70.15
Medium	338	340	140.40	7.99	2.31	41.29	12.90	7.74	72.23
Fast	375	300	120.40	9.07	3.21	40.13	16.24	4.80	73.45
Waterproofing, clear hydro sealer (material #34)									
Roll 1st coat									
Slow	170	200	40.80	12.21	2.92	20.40	6.75	6.77	49.05
Medium	200	165	35.70	13.50	3.90	21.64	9.76	5.86	54.66
Fast	245	130	30.60	13.88	4.89	23.54	13.12	3.88	59.31
Roll 2nd or additional coats									
Slow	275	325	40.80	7.55	1.82	12.55	4.16	4.17	30.25
Medium	300	275	35.70	9.00	2.59	12.98	6.15	3.69	34.41
Fast	325	225	30.60	10.46	3.71	13.60	8.60	2.54	38.91
Industrial waterproofing (material #58)									
Roll 1st coat									
Slow	100	125	43.40	20.75	4.98	34.72	11.49	11.51	83.45
Medium	113	113	38.00	23.89	6.91	33.63	16.11	9.66	90.20
Fast	125	100	32.50	27.20	9.60	32.50	21.48	6.35	97.13
Roll 2nd or additional coats									
Slow	180	200	43.40	11.53	2.78	21.70	6.84	6.85	49.70
Medium	198	188	38.00	13.64	3.93	20.21	9.45	5.67	52.90
Fast	215	175	32.50	15.81	5.58	18.57	12.39	3.66	56.01

Use these figures to estimate the costs for finishing concrete walls which have a smooth surface (trowel), rough texture, or exposed aggregate finish. For wall heights above 10', increase the computed area by 50%. "Slow" work is based on an hourly wage of \$20.75, "Medium" work on an hourly wage of \$27.00, and "Fast" work on an hourly wage of \$34.00. Other qualifications that apply to this table are on page 9.

National Painting Cost Estimator

	Labor SF per manhour	Material coverage SF/gallon	Material cost per gallon	Labor cost per 100 SF	Labor burden 100 SF	Material cost per 100 SF	Overhead per 100 SF	Profit per 100 SF	Total price per 100 SF
Walls, concrete tilt-up, spray application									
Flat latex, water base (material #5)									
Spray 1st coat									
Slow	500	225	34.10	4.15	1.00	15.16	3.86	3.87	28.04
Medium	600	188	29.80	4.50	1.31	15.85	5.41	3.25	30.32
Fast	700	150	25.60	4.86	1.72	17.07	7.33	2.17	33.15
Spray 2nd or additional coats									
Slow	600	275	34.10	3.46	.84	12.40	3.17	3.18	23.05
Medium	700	238	29.80	3.86	1.12	12.52	4.38	2.63	24.51
Fast	800	200	25.60	4.25	1.50	12.80	5.75	1.70	26.00
Enamel, water base (material #9)									
Spray 1st coat									
Slow	500	225	47.50	4.15	1.00	21.11	4.99	5.00	36.25
Medium	550	188	41.50	4.91	1.42	22.07	7.10	4.26	39.76
Fast	600	150	35.60	5.67	2.01	23.73	9.73	2.88	44.02
Spray 2nd or additional coats									
Slow	600	275	47.50	3.46	.84	17.27	4.10	4.11	29.78
Medium	700	238	41.50	3.86	1.12	17.44	5.61	3.36	31.39
Fast	800	200	35.60	4.25	1.50	17.80	7.30	2.16	33.01
Enamel, oil base (material #10)									
Spray 1st coat									
Slow	500	200	73.90	4.15	1.00	36.95	8.00	8.02	58.12
Medium	550	163	64.60	4.91	1.42	39.63	11.49	6.89	64.34
Fast	600	125	55.40	5.67	2.01	44.32	16.12	4.77	72.89
Spray 2nd or additional coats									
Slow	600	300	73.90	3.46	.84	24.63	5.49	5.51	39.93
Medium	700	243	64.60	3.86	1.12	26.58	7.89	4.73	44.18
Fast	800	175	55.40	4.25	1.50	31.66	11.60	3.43	52.44
Epoxy coating, 2 part system, clear (material #51)									
Spray 1st coat									
Slow	500	270	155.00	4.15	1.00	57.41	11.89	11.91	86.36
Medium	700	253	135.60	3.86	1.12	53.60	14.65	8.79	82.02
Fast	900	235	116.20	3.78	1.33	49.45	16.91	5.00	76.47
Spray 2nd or additional coats									
Slow	600	375	155.00	3.46	.84	41.33	8.67	8.69	62.99
Medium	800	338	135.60	3.38	.97	40.12	11.12	6.67	62.26
Fast	1000	300	116.20	3.40	1.20	38.73	13.43	3.97	60.73

	Labor SF per manhour	Material coverage SF/gallon	Material cost per gallon	Labor cost per 100 SF	Labor burden 100 SF	Material cost per 100 SF	Overhead per 100 SF	Profit per 100 SF	Total price per 100 SF
Epoxy coating, 2 part system, white (material #52)									
Spray 1st coat									
Slow	500	270	160.50	4.15	1.00	59.44	12.27	12.30	89.16
Medium	700	253	140.40	3.86	1.12	55.49	15.12	9.07	84.66
Fast	900	235	120.40	3.78	1.33	51.23	17.47	5.17	78.98
Spray 2nd or additional coats									
Slow	600	375	160.50	3.46	.84	42.80	8.95	8.97	65.02
Medium	800	338	140.40	3.38	.97	41.54	11.48	6.89	64.26
Fast	1000	300	120.40	3.40	1.20	40.13	13.87	4.10	62.70
Waterproofing, clear hydro sealer (material #34)									
Spray 1st coat									
Slow	600	125	40.80	3.46	.84	32.64	7.02	7.03	50.99
Medium	650	113	35.70	4.15	1.21	31.59	9.24	5.54	51.73
Fast	700	100	30.60	4.86	1.72	30.60	11.53	3.41	52.12
Spray 2nd or additional coats									
Slow	700	200	40.80	2.96	.72	20.40	4.57	4.58	33.23
Medium	800	170	35.70	3.38	.97	21.00	6.34	3.80	35.49
Fast	900	140	30.60	3.78	1.33	21.86	8.36	2.47	37.80

Use these figures to estimate the costs for finishing concrete walls which have a smooth surface (trowel), rough texture, or exposed aggregate finish. For wall heights above 10', increase the computed area by 50%. "Slow" work is based on an hourly wage of \$20.75, "Medium" work on an hourly wage of \$27.00, and "Fast" work on an hourly wage of \$34.00. Other qualifications that apply to this table are on page 9.

Walls, gypsum drywall

Smooth-wall finish, no texture: See General Painting Costs, page 240

National Painting Cost Estimator

	Labor LF per manhour	Material coverage LF/gallon	Material cost per gallon	Labor cost per 100 LF	Labor burden 100 LF	Material cost per 100 LF	Overhead per 100 LF	Profit per 100 LF	Total price per 100 LF
Windows, steel factory sash, brush application									
Metal primer, rust inhibitor - clean metal (material #35)									
Brush prime coat									
Slow	100	850	60.90	20.75	4.98	7.16	6.25	6.26	45.40
Medium	125	800	53.30	21.60	6.24	6.66	8.63	5.18	48.31
Fast	150	750	45.60	22.67	8.01	6.08	11.39	3.37	51.52
Metal primer, rust inhibitor - rusty metal (material #36)									
Brush prime coat									
Slow	100	800	79.10	20.75	4.98	9.89	6.77	6.78	49.17
Medium	125	750	69.20	21.60	6.24	9.23	9.27	5.56	51.90
Fast	150	700	59.30	22.67	8.01	8.47	12.13	3.59	54.87
Metal finish - synthetic enamel, gloss, interior or exterior, off white (material #37)									
Brush 1st coat									
Slow	125	900	61.90	16.60	3.98	6.88	5.22	5.23	37.91
Medium	150	850	54.20	18.00	5.21	6.38	7.40	4.44	41.43
Fast	175	800	46.40	19.43	6.84	5.80	9.95	2.94	44.96
Brush 2nd or additional coats									
Slow	150	1000	61.90	13.83	3.33	6.19	4.43	4.44	32.22
Medium	175	950	54.20	15.43	4.44	5.71	6.40	3.84	35.82
Fast	200	900	46.40	17.00	6.00	5.16	8.73	2.58	39.47
Metal finish - synthetic enamel, gloss, interior or exterior, colors, except orange & red (material #38)									
Brush 1st coat									
Slow	125	950	65.30	16.60	3.98	6.87	5.22	5.23	37.90
Medium	150	900	57.20	18.00	5.21	6.36	7.39	4.43	41.39
Fast	175	850	49.00	19.43	6.84	5.76	9.94	2.94	44.91
Brush 2nd or additional coats									
Slow	150	1050	65.30	13.83	3.33	6.22	4.44	4.45	32.27
Medium	175	1000	57.20	15.43	4.44	5.72	6.40	3.84	35.83
Fast	200	950	49.00	17.00	6.00	5.16	8.73	2.58	39.47

These figures will apply when painting steel factory sash but do not include work on glazing or frame. For heights above 8 feet, use the High Time Difficulty Factors on page 139. Note: A two coat system, prime and finish, using oil base material is recommended for any metal surface. Using water base material may cause oxidation, corrosion and rust. Using one coat of oil base paint on metal surfaces may result in cracking, peeling or chipping without the proper prime coat application. If off-white or another light-colored finish paint is specified, make sure the prime coat is also a light color, or more than one finish coat will be necessary. "Slow" work is based on an hourly wage of \$20.75, "Medium" work on an hourly wage of \$27.00, and "Fast" work on an hourly wage of \$34.00. Other qualifications that apply to this table are on page 9.

	Labor yards per day	Material by others	Labor cost per 10 yards	Labor burden 10 yards	Overhead per 10 yards	Profit per 10 yards	Total cost per 10 yards	Total price per yard
Large wall areas (corridors, long hallways)								
Walls								
Slow	80	--	19.25	4.62	4.54	4.55	32.96	3.30
Medium	110	--	18.18	5.25	5.86	3.51	32.80	3.28
Fast	125	--	20.16	7.12	8.46	2.50	38.24	3.82
Ceilings								
Slow	78	--	19.74	4.75	4.65	4.66	33.80	3.38
Medium	90	--	22.22	6.43	7.16	4.30	40.11	4.01
Fast	103	--	24.47	8.65	10.26	3.04	46.42	4.64

Canvas sheeting: see Wall fabric, residential, hand pasted

Grasscloth: see Wall fabric, residential, hand pasted

Burlap: see Wall fabric, residential, hand pasted

Natural fabric, silk: see Wall fabric, residential, hand pasted

Natural fabric, felt, linen, cotton: see Wall fabric, residential, hand pasted

The table above assumes that commercial rolls are machine pasted. ADD for surface preparation time from page 425 or from the tables in Part II, Preparation costs beginning on page 295 as needed. For heights above 8 feet, use the High Time Difficulty Factors on page 139. "Slow" work is based on an hourly wage of \$19.25, "Medium" work on an hourly wage of \$25.00, and "Fast" work on an hourly wage of \$31.50. Add for ready-mix paste.

National Painting Cost Estimator

	Labor rolls per day	Material by others	Labor cost per 10 rolls	Labor burden 10 rolls	Overhead per 10 rolls	Profit per 10 rolls	Total cost per 10 rolls	Total price per roll
Wall fabric, residential, hand pasted, single rolls per day 18" to 27" wide								
Coated fabrics								
Cut-up areas (stair halls, landing areas)								
Walls								
Slow	12	--	135.00	32.41	31.81	31.87	231.09	23.11
Medium	13	--	163.08	47.14	52.55	31.53	294.30	29.43
Fast	14	--	191.43	67.59	80.29	23.75	363.06	36.30
Ceilings								
Slow	8	--	202.50	48.60	47.71	47.81	346.62	34.66
Medium	9	--	235.56	68.09	75.91	45.55	425.11	42.51
Fast	10	--	268.00	94.64	112.41	33.25	508.30	50.83
Small rooms (baths, utility rooms)								
Walls								
Slow	13	--	124.62	29.91	29.36	29.42	213.31	21.33
Medium	14	--	151.43	43.76	48.80	29.28	273.27	27.33
Fast	15	--	178.67	63.07	74.94	22.17	338.85	33.89
Ceilings								
Slow	10	--	162.00	38.88	38.17	38.25	277.30	27.73
Medium	11	--	192.73	55.72	62.11	37.26	347.82	34.78
Fast	12	--	223.33	78.89	93.67	27.71	423.60	42.36
Medium rooms (bedrooms, dining rooms)								
Walls								
Slow	18	--	90.00	21.59	21.20	21.25	154.04	15.41
Medium	20	--	106.00	30.64	34.16	20.49	191.29	19.13
Fast	22	--	121.82	43.00	51.09	15.11	231.02	23.10
Ceilings								
Slow	16	--	101.25	24.30	23.85	23.90	173.30	17.33
Medium	18	--	117.78	34.03	37.96	22.77	212.54	21.26
Fast	20	--	134.00	47.32	56.20	16.63	254.15	25.41
Large rooms (living rooms)								
Walls								
Slow	22	--	73.64	17.66	17.35	17.39	126.04	12.61
Medium	25	--	84.80	24.51	27.33	16.40	153.04	15.30
Fast	28	--	95.71	33.80	40.15	11.88	181.54	18.15
Ceilings								
Slow	19	--	85.26	20.48	20.09	20.13	145.96	14.59
Medium	21	--	100.95	29.20	32.53	19.52	182.20	18.22
Fast	23	--	116.52	41.14	48.87	14.46	220.99	22.10

	Labor rolls per day	Material by others	Labor cost per 10 rolls	Labor burden 10 rolls	Overhead per 10 rolls	Profit per 10 rolls	Total cost per 10 rolls	Total price per roll
Large wall areas (corridors, long hallways)								
Walls								
Slow	26	--	62.31	14.95	14.68	14.71	106.65	10.67
Medium	29	--	73.10	21.15	23.56	14.13	131.94	13.19
Fast	32	--	83.75	29.58	35.13	10.39	158.85	15.88
Ceilings								
Slow	22	--	73.64	17.66	17.35	17.39	126.04	12.61
Medium	24	--	88.33	25.53	28.47	17.08	159.41	15.94
Fast	26	--	103.08	36.40	43.24	12.79	195.51	19.55
Canvas sheeting								
Medium room walls (bedrooms, dining rooms)								
Walls								
Slow	14	--	115.71	27.77	27.26	27.32	198.06	19.81
Medium	16	--	132.50	38.30	42.70	25.62	239.12	23.91
Fast	17	--	157.65	55.67	66.12	19.56	299.00	29.90
Grasscloth								
Medium room walls (bedrooms, dining rooms)								
Walls								
Slow	15	--	108.00	25.91	25.44	25.50	184.85	18.49
Medium	20	--	106.00	30.64	34.16	20.49	191.29	19.13
Fast	24	--	111.67	39.41	46.84	13.86	211.78	21.18
Burlap								
Medium rooms (bedrooms, dining rooms)								
Walls								
Slow	10	--	162.00	38.88	38.17	38.25	277.30	27.73
Medium	14	--	151.43	43.76	48.80	29.28	273.27	27.33
Fast	18	--	148.89	52.56	62.45	18.47	282.37	28.24
Natural fabric, silk								
Medium rooms (bedrooms, dining rooms)								
Walls								
Slow	8	--	202.50	48.60	47.71	47.81	346.62	34.66
Medium	12	--	176.67	51.07	56.93	34.16	318.83	31.88
Fast	15	--	178.67	63.07	74.94	22.17	338.85	33.89
Natural fabric, felt, linen, cotton								
Medium rooms (bedrooms, dining rooms)								
Walls								
Slow	7	--	231.43	55.55	54.52	54.64	396.14	39.61
Medium	9	--	235.56	68.09	75.91	45.55	425.11	42.51
Fast	11	--	243.64	86.05	102.19	30.23	462.11	46.21

The table above assumes that residential rolls are hand pasted. ADD for surface preparation time from page 425 or from the tables in Part II, Preparation costs beginning on page 295 as needed. For heights above 8 feet, use the High Time Difficulty Factors on page 139. "Slow" work is based on an hourly wage of \$20.25, "Medium" work on an hourly wage of \$26.50, and "Fast" work on an hourly wage of \$33.50. Add for ready-mix paste.

National Painting Cost Estimator

	Labor rolls per day	Material by others	Labor cost per 10 rolls	Labor burden 10 rolls	Overhead per 10 rolls	Profit per 10 rolls	Total cost per 10 rolls	Total price per roll
Wallpaper, commercial, machine pasted, single rolls per day, 27" width								
Blind stock (lining)								
Cut-up areas (stair halls, landing areas)								
Walls								
Slow	19	--	81.05	19.47	19.10	19.14	138.76	13.87
Medium	21	--	95.24	27.56	30.69	18.41	171.90	17.19
Fast	23	--	109.57	38.66	45.96	13.59	207.78	20.78
Ceilings								
Slow	16	--	96.25	23.10	22.68	22.72	164.75	16.48
Medium	18	--	111.11	32.12	35.81	21.48	200.52	20.05
Fast	20	--	126.00	44.48	52.85	15.63	238.96	23.90
Small rooms (restrooms, utility rooms)								
Walls								
Slow	21	--	73.33	17.61	17.28	17.31	125.53	12.55
Medium	25	--	80.00	23.14	25.78	15.47	144.39	14.44
Fast	29	--	86.90	30.69	36.45	10.78	164.82	16.48
Ceilings								
Slow	17	--	90.59	21.74	21.34	21.39	155.06	15.51
Medium	20	--	100.00	28.92	32.23	19.34	180.49	18.05
Fast	22	--	114.55	40.42	48.05	14.21	217.23	21.73
Medium rooms (offices)								
Walls								
Slow	29	--	58.10	12.76	12.51	12.54	90.91	9.09
Medium	35	--	57.14	16.54	18.41	11.05	103.14	10.31
Fast	41	--	61.46	21.69	25.78	7.63	116.56	11.66
Ceilings								
Slow	25	--	61.60	14.78	14.51	14.54	105.43	10.54
Medium	30	--	66.67	19.29	21.49	12.89	120.34	12.03
Fast	34	--	74.12	26.16	31.09	9.20	140.57	14.06
Large rooms (conference rooms)								
Walls								
Slow	35	--	44.00	10.57	10.37	10.39	75.33	7.53
Medium	41	--	48.78	14.10	15.72	9.43	88.03	8.80
Fast	47	--	53.62	18.92	22.49	6.65	101.68	10.17
Ceilings								
Slow	29	--	53.10	12.76	12.51	12.54	90.91	9.09
Medium	34	--	58.82	17.02	18.96	11.37	106.17	10.62
Fast	38	--	66.32	23.40	27.82	8.23	125.77	12.58

	Labor rolls per day	Material by others	Labor cost per 10 rolls	Labor burden 10 rolls	Overhead per 10 rolls	Profit per 10 rolls	Total cost per 10 rolls	Total price per roll
Large wall areas (corridors, long hallways)								
Walls								
Slow	40	--	38.50	9.24	9.07	9.09	65.90	6.59
Medium	45	--	44.44	12.86	14.32	8.59	80.21	8.02
Fast	50	--	50.40	17.79	21.14	6.25	95.58	9.56
Ceilings								
Slow	33	--	46.67	11.19	11.00	11.02	79.88	7.99
Medium	38	--	52.63	15.21	16.96	10.18	94.98	9.50
Fast	42	--	60.00	21.19	25.17	7.44	113.80	11.38
Ordinary pre-trimmed wallpaper or butt joint work								
Medium room walls (offices)								
Walls								
Slow	26	--	59.23	14.22	13.96	13.99	101.40	10.14
Medium	31	--	64.52	18.67	20.79	12.48	116.46	11.64
Fast	36	--	70.00	24.70	29.36	8.68	132.74	13.28
Ceilings								
Slow	23	--	66.96	16.06	15.78	15.81	114.61	11.46
Medium	28	--	71.43	20.65	23.02	13.81	128.91	12.89
Fast	32	--	78.75	27.80	33.03	9.77	149.35	14.94
Hand-crafted wallpaper								
Medium room walls (offices)								
Walls								
Slow	20	--	77.00	18.48	18.14	18.18	131.80	13.18
Medium	24	--	83.33	24.09	26.85	16.11	150.38	15.04
Fast	28	--	90.00	31.77	37.75	11.17	170.69	17.07
Ceilings								
Slow	18	--	85.56	20.52	20.16	20.20	146.44	14.65
Medium	21	--	95.24	27.56	30.69	18.41	171.90	17.19
Fast	23	--	109.57	38.66	45.96	13.59	207.78	20.78
Flock wallpaper, medium rooms (offices)								
Walls								
Slow	14	--	110.00	26.39	25.92	25.97	188.28	18.83
Medium	17	--	117.65	34.02	37.91	22.75	212.33	21.23
Fast	20	--	126.00	44.48	52.85	15.63	238.96	23.90
Foil wallpaper, medium rooms (offices)								
Walls								
Slow	13	--	118.46	28.44	27.91	27.97	202.78	20.28
Medium	16	--	125.00	36.15	40.28	24.17	225.60	22.56
Fast	19	--	132.63	46.84	55.63	16.46	251.56	25.15

National Painting Cost Estimator

	Labor rolls per day	Material by others	Labor cost per 10 rolls	Labor burden 10 rolls	Overhead per 10 rolls	Profit per 10 rolls	Total cost per 10 rolls	Total price per roll
Canvas wallpaper, medium rooms (offices)								
Walls								
Slow	12	--	128.33	30.81	30.23	30.30	219.67	21.97
Medium	14	--	142.86	41.30	46.04	27.62	257.82	25.78
Fast	16	--	157.50	55.60	66.06	19.54	298.70	29.87
Scenic wallpaper, medium rooms (offices)								
Walls								
Slow	16	--	96.25	23.10	22.68	22.72	164.75	16.48
Medium	18	--	111.11	32.12	35.81	21.48	200.52	20.05
Fast	20	--	126.00	44.48	52.85	15.63	238.96	23.90

The table above assumes that commercial rolls are machine pasted. ADD for surface preparation time from page 425 or from the tables in Part II, Preparation costs beginning on page 295, as needed. For heights above 8 feet, use the High Time Difficulty Factors on page 139. "Slow" work is based on an hourly wage of \$19.25, "Medium" work on an hourly wage of \$25.00, and "Fast" work on an hourly wage of \$31.50. Add for ready-mix paste.

	Labor rolls per day	Material by others	Labor cost per 10 rolls	Labor burden 10 rolls	Overhead per 10 rolls	Profit per 10 rolls	Total cost per 10 rolls	Total price per roll
Wallpaper, residential, hand pasted, single rolls per day 18" to 27" wide								
Blind stock (lining)								
Cut-up areas (stair halls, landing areas)								
Walls								
Slow	11	--	147.27	35.36	34.70	34.77	252.10	25.21
Medium	13	--	163.08	47.14	52.55	31.53	294.30	29.43
Fast	14	--	191.43	67.59	80.29	23.75	363.06	36.30
Ceilings								
Slow	10	--	162.00	38.88	38.17	38.25	277.30	27.73
Medium	11	--	192.73	55.72	62.11	37.26	347.82	34.78
Fast	12	--	223.33	78.89	93.67	27.71	423.60	42.36
Small rooms (baths, utility rooms)								
Walls								
Slow	12	--	135.00	32.41	31.81	31.87	231.09	23.11
Medium	14	--	151.43	43.76	48.80	29.28	273.27	27.33
Fast	16	--	167.50	59.15	70.26	20.78	317.69	31.77
Ceilings								
Slow	11	--	147.27	35.36	34.70	34.77	252.10	25.21
Medium	13	--	163.08	47.14	52.55	31.53	294.30	29.43
Fast	14	--	191.43	67.59	80.29	23.75	363.06	36.30
Medium rooms (bedrooms, dining rooms)								
Walls								
Slow	20	--	81.00	19.44	19.08	19.12	138.64	13.86
Medium	23	--	92.17	26.64	29.70	17.82	166.33	16.63
Fast	26	--	103.08	36.40	43.24	12.79	195.51	19.55
Ceilings								
Slow	18	--	90.00	21.59	21.20	21.25	154.04	15.41
Medium	20	--	106.00	30.64	34.16	20.49	191.29	19.13
Fast	22	--	121.82	43.00	51.09	15.11	231.02	23.10
Large rooms (living rooms)								
Walls								
Slow	23	--	70.43	16.90	16.59	16.63	120.55	12.06
Medium	27	--	78.52	22.70	25.30	15.18	141.70	14.17
Fast	31	--	86.45	30.55	36.26	10.73	163.99	16.40
Ceilings								
Slow	20	--	81.00	19.44	19.08	19.12	138.64	13.86
Medium	22	--	96.36	27.85	31.05	18.63	173.89	17.39
Fast	24	--	111.67	39.41	46.84	13.86	211.78	21.18

National Painting Cost Estimator

	Labor rolls per day	Material by others	Labor cost per 10 rolls	Labor burden 10 rolls	Overhead per 10 rolls	Profit per 10 rolls	Total cost per 10 rolls	Total price per roll
Large wall areas (corridors, long hallways)								
Walls								
Slow	29	--	55.86	13.42	13.16	13.19	95.63	9.56
Medium	33	--	64.24	18.56	20.70	12.42	115.92	11.59
Fast	36	--	74.44	26.28	31.22	9.24	141.18	14.12
Ceilings								
Slow	23	--	70.43	16.90	16.59	16.63	120.55	12.06
Medium	25	--	84.80	24.51	27.33	16.40	153.04	15.30
Fast	27	--	99.26	35.05	41.63	12.32	188.26	18.83
Ordinary pre-trimmed wallpaper or butt joint work								
Medium room walls (bedrooms, dining rooms)								
Walls								
Slow	18	--	90.00	21.59	21.20	21.25	154.04	15.41
Medium	21	--	100.95	29.20	32.53	19.52	182.20	18.22
Fast	24	--	111.67	39.41	46.84	13.86	211.78	21.18
Ceilings								
Slow	16	--	101.25	24.30	23.85	23.90	173.30	17.33
Medium	18	--	117.78	34.03	37.96	22.77	212.54	21.26
Fast	20	--	134.00	47.32	56.20	16.63	254.15	25.41
Hand-crafted wallpaper								
Medium room walls (bedrooms, dining rooms)								
Walls								
Slow	12	--	135.00	32.41	31.81	31.87	231.09	23.11
Medium	15	--	141.33	40.85	45.54	27.33	255.05	25.50
Fast	18	--	148.89	52.56	62.45	18.47	282.37	28.24
Ceilings								
Slow	10	--	162.00	38.88	38.17	38.25	277.30	27.73
Medium	12	--	176.67	51.07	56.93	34.16	318.83	31.88
Fast	14	--	191.43	67.59	80.29	23.75	363.06	36.30
Flock wallpaper, medium rooms (bedrooms, dining rooms)								
Walls								
Slow	10	--	162.00	38.88	38.17	38.25	277.30	27.73
Medium	13	--	163.08	47.14	52.55	31.53	294.30	29.43
Fast	16	--	167.50	59.15	70.26	20.78	317.69	31.77
Foil wallpaper, medium rooms (bedrooms, dining rooms)								
Walls								
Slow	9	--	180.00	43.20	42.41	42.50	308.11	30.81
Medium	12	--	176.67	51.07	56.93	34.16	318.83	31.88
Fast	15	--	178.67	63.07	74.94	22.17	338.85	33.89

	Labor rolls per day	Material by others	Labor cost per 10 rolls	Labor burden 10 rolls	Overhead per 10 rolls	Profit per 10 rolls	Total cost per 10 rolls	Total price per roll
Canvas wallpaper, medium rooms (bedrooms, dining rooms)								
Walls								
Slow	8	--	202.50	48.60	47.71	47.81	346.62	34.66
Medium	10	--	212.00	61.28	68.32	40.99	382.59	38.26
Fast	12	--	223.33	78.89	93.67	27.71	423.60	42.36
Scenic wallpaper, medium rooms (bedrooms, dining rooms)								
Walls								
Slow	12	--	135.00	32.41	31.81	31.87	231.09	23.11
Medium	14	--	151.43	43.76	48.80	29.28	273.27	27.33
Fast	16	--	167.50	59.15	70.26	20.78	317.69	31.77

The table above assumes that residential rolls are hand pasted. ADD for surface preparation time from page 425 or from the tables in Part II, Preparation costs beginning on page 295, as needed. For heights above 8 feet, use the High Time Difficulty Factors on page 139. "Slow" work is based on an hourly wage of \$20.25, "Medium" work on an hourly wage of \$26.50, and "Fast" work on an hourly wage of \$33.50. Add for ready-mix paste.

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