



[www.forever-floors.com](http://www.forever-floors.com)

[john@expertfloorman.com](mailto:john@expertfloorman.com)

610.433.1261

Forever Floors Concrete Surface Preparation Comparison Chart

	Sweeping/Broom cleaning	Wet cleaning, scrubbing with soap & water	Pressure washing & scrubbing with soap & water	Acid etching with out pressure washing	Scrubbing with soap & water, acid etching with out pressure washing	Acid etching with pressure wash rinsing	Pressure washing, scrubbing with soap & water, acid etching with pressure wash rinsing	Scarifying bulk areas, no edge	Scarifying bulk areas, diamond grinding edges, sweeping and vacuuming	Diamond grinding bulk areas and prep, sweeping and vacuuming	Shot blasting bulk areas, no edge prep, sweeping and vacuuming	Shot blasting bulk area & diamond grinding edges, sweeping and vacuuming
Cost	\$0-50	\$50- 100	\$50- 150	\$25- 50	\$25-50	\$50-150	\$100- 200	\$200- \$300	\$300- 400	\$250-\$400	\$400-500+	\$6-\$700+
Effectiveness	Poor	Marginal	Marginal	Marginal	Marginal	Fair	Good	Good	Better	Better	Better	Excellent
Time to Complete Prep	1	2	3	3	4	4	5	4	5	5	5	5
Change in depth of Profile	0"	0"	0"	0- .001"	.002- .003"	.002- .003"	.002- .003"	.080- .200"	.080- .200"	.010- .020"	.020- .030"	.020- .030"
Facilitates Inexpensive Coating system	5	5	5	5	5	5	5	2	2	4	4	4
Time Prior to Coatings Application	1	5	5	5	5	5	5	1	1	1	1	1
Skill Level Required	1	2	3	2	3	3	3	5	5	3	5	5
Cons/Drawbacks	*1	*2, *3	*2, *3	*1, *2, *3, *4	*2, *3, *4	*1, *2, *3	*2, *3	*5, *6, *7	*5, *6	*6	*7	*6
Pros	~1	~2	~2	~2	~2	~3	~4	~5	~5	~5	~6	~6

Legend 1-5 Least Likely to Most Likely, Lowest Amount of time to Highest Amount, Minimal skill level to Extremely High (to complete competently)

- Cons
- \*1- may not work at all, surface probably will not or may not be clean enough for paint or coating to bond and or stay adhered
  - \*2- may need to collect waste water, waste water may damage adjacent finishes, may need to wait for floor surface to dry prior to application of coatings
  - \*3- Ineffective if there are oil stains, surface contaminants (old coatings, mastic, etc.), curing compounds/membranes on surface of concrete which are unaffected by acid and or for highly steel trowelled surfaces (shiny)
  - \*4- laitance ('loose', fine particles of the 'cream' that comes to the surface when finishing/troweling concrete) in concrete may remain preventing coating from bonding to 'sound concrete'
  - \*5- difficult to keep 'depth of cut' to minimal and uniform depths potentially requiring use of a thicker mor expensive floor system to 'fill' profile left by preparation operation. Probably best done by more skilled operator, not necessarily DIYer
  - \*6- can be extemely dusty depending on effectiveness of dust collection system
  - \*7- failure to prepare edges properly can lead to loss of bond at edgers, which in turn can lead to loss of bond in adjacent 'bulk' areas

- Pros
- ~1- fast and inexpensive
  - ~2- relatively inexpensive, minimal labor time required
  - ~3- relatively inexpensive, minimal labor time required, slightly higher chance of long term success
  - ~4- relatively inexpensive, nomimal labor time required, reasonably higher chance of long term success if done properly, and appropriate floor system is installed
  - ~5- relatively inexpensive, nomimal labor time required, faster overall floor system installation completion than wet prep operations, reasonably higher chance of long term success if done properly, and appropriate floor system is installed
  - ~6- faster overall floor system installation completion than wet prep operations, best chance of long term success if done properly, and relatively inexpensive high quality floor systems can be installed successfully

Clarifications- Based on Standard 2 car garage, DIY if possible (no labor \$, approximate equipment rental costs renting DIY grade equipment), assumption person completing work has normal skill levels and some normally found equipment (shop vac, hand tools, extension cords, etc.), times based on DIY labor and equipment. Note having work professionally done dramatically changes both expense (higher) and time to complete (less)

## Forever Floors Floor System Selection Chart

Floor System

Floor System Installation Parameters

Surface Profile .001" - .003"

Surface Profile .004" - .008"

Surface Profile .009" - .015"

Surface Profile .016" - .025"

Surface Profile .026" - .030"

Surface Profile .031" - .050"

Surface Profile .081" - .100"

Surface Profile .101" - .150"

Surface Profile .151" +

Chemical Resistance \*1, \*2

Hot Tire 'Pick Up'

Slip Resistance

Scratch and mar resistance \*3

Cost

	Paint/Deck Enamel	Polyamide Epoxy System	High Build Coating System	1/8" Self Leveling Resinous System	Self Leveling Resinous Underlayment	1/4" Trowel Down Resinous System
Surface Profile .001" - .003"	X	X	X	X	X	X
Surface Profile .004" - .008"		X	X	X	X	X
Surface Profile .009" - .015"			X	X	X	X
Surface Profile .016" - .025"			X	X	X	X
Surface Profile .026" - .030"			X	X	X	X
Surface Profile .031" - .050"				X	X	X
Surface Profile .081" - .100"				X	X	X
Surface Profile .101" - .150"					X	X
Surface Profile .151" +					X	X
Chemical Resistance *1, *2		G	G	G		G
Hot Tire 'Pick Up'		X	X	X		X
Slip Resistance	1	1	1-2	1-3		1-2
Scratch and mar resistance *3		F	F	F		F
Cost	\$	\$\$	\$\$\$	\$\$\$\$	\$\$\$	\$\$\$\$

Clarifications

\*1- most systems installed with standard materials in respective categories as rated for normal household or automotive type chemicals (detergents, cleaning chemicals, mild solvents, oils, grease, gasoline, brake fluid, anti freeze, etc.). Based on splash exposures (as opposed to immersion), check/verify with individual product or specific manufacturer's recommendations!

\*2. May be installed with specialized polymers that are resistant to virtually any type of chemical exposure. Check with product manufacturer for suitability with whatever chemical exposure you anticipate.

\*3. May be installed with specialized finish materials that significantly improve scratch and mar resistance- check with manufacturer for specific recommendations,