

TD.511 – TECHNICAL DATA: Estimating Guide for Epoxy Mortar Systems

Revised: 1.24.16

How to use the charts below:

Assume the requirement is to place a ¼" thick trowel applied epoxy floor.

1 gallon of mixed epoxy and 5 gallons of typical blend of silica sand = 4 mortar gallons see chart #1.

Chart #2 details how many square feet coverage for each mortar gallon.

Thus 4 mortar gallons @ ¼ inch thickness = 4.0 x 6.4 = 25.6 square feet per mix @ 1/4' thickness

(1)

| EPOXY MORTAR YEILD | | |
|--------------------------|------------------|---------------|
| EPOXY RESIN MIXED GALLON | AGGREGATE GALLON | MORTAR GALLON |
| 1 | 1 | 1.6 |
| 1 | 2 | 2.2 |
| 1 | 3 | 2.8 |
| 1 | 4 | 3.4 |
| 1 | 5 | 4.0 |
| 1 | 6 | 4.6 |
| 1 | 7 | 5.2 |

(2)

| COVERAGE PER GALLON OF EPOXY MORTAR (EPOXY BINDER WITH SILICA SAND) | |
|--|-----------------------------|
| THICKNESS IN INCHES | COVERAGE SQ. FT. PER GALLON |
| 1/16" | 25.7 |
| 1/8" | 12.8 |
| 3/16" | 8.6 |
| 1/4" | 6.4 |
| 3/8" | 4.3 |
| 1/2" | 3.2 |

(3)

| Coverage for 100% solids epoxy coatings (Any coating with no solvents) (1000 MILS = 1" THICKNESS) | | |
|---|------------------------|--|
| THICKNESS OF COATING APPLIED | COVERAGE PER US GALLON | |
| 1/4" = 250.00 MILS | 6.4 SQ. FT. PER GALLON | |
| 3/16" = 187.5 MILS | 8.5 SQ FT PER GALLON | |
| 1/8" = 125.0 MILS | 12.8 SQ FT PER GALLON | |
| 1/16" = 62.5 MILS | 25.5 SQ FT PER GALLON | |
| 1/32" = 31.25 MILS | 51.0 SQ FT PER GALLON | |
| 1/64" = 15.63 MILS | 102.0 SQ FT PER GALLON | |
| 10 MILS | 160.0 SQ FT PER GALLON | |
| 5 MILS | 320 SQ FT PER GALLON | |

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1 MIL

1600 SQ FT PER GALLON

(4)

JOINT FILLING
 (LINEAL FEET PER GALLON)

| Width | Depth | Coverage per Gallon | Width | Depth | Coverage per Gallon |
|--------|----------|---------------------|--------|----------|---------------------|
| 1/4" | 1/4" = | 308 lf | 1 3/4" | 1/4" = | 44 lf |
| 1/2" | 1/4" = | 154 lf | 1 3/4" | 1/2" = | 22 lf |
| 1/2" | 1/2" = | 77 lf | 1 3/4" | 3/4" = | 14.7 lf |
| 3/4" | 1/4" = | 102.7 lf | 1 3/4" | 1" = | 11.0 lf |
| 3/4" | 1/2" = | 51.3 lf | 1 3/4" | 1 1/4" = | 8.8 lf |
| 3/4" | 3/4" = | 34.2 lf | 1 3/4" | 1 1/2" = | 7.3 lf |
| 1" | 1/4" = | 77. lf | 2" | 1/4" = | 38.5 lf |
| 1" | 1/2" = | 38.5 lf | 2" | 1/2" = | 19.3 lf |
| 1" | 3/4" = | 25.7 lf | 2" | 3/4" = | 12.8 lf |
| 1" | 1" = | 19.3 lf | 2" | 1" = | 9.6 lf |
| 1 1/4" | 1/4" = | 61.6 lf | 2" | 1 1/4" = | 7.7 lf |
| 1 1/4" | 1/2" = | 30.8 lf | 2" | 1 1/2" = | 6.4 lf |
| 1 1/4" | 3/4" = | 20.5 lf | 2 1/2" | 1/4" = | 30.8 lf |
| 1 1/4" | 1" = | 15.4 lf | 2 1/2" | 1/2" = | 15.4 lf |
| 1 1/4" | 1 1/4" = | 12.3 lf | 2 1/2" | 3/4" = | 10.3 lf |
| 1 1/2" | 1/4" = | 51.3 lf | 2 1/2" | 1" = | 7.7 lf |
| 1 1/2" | 1/2" = | 25.7 lf | 3" | 1/4" = | 25.7 lf |
| 1 1/2" | 3/4" = | 17.1 lf | 3" | 1/2" = | 12.8 lf |
| 1 1/2" | 1" = | 12.8 lf | 3" | 3/4" = | 8.6 lf |
| 1 1/2" | 1 1/4" = | 10.3 lf | 3" | 1" = | 6.4lf |
| 1 1/2" | 1 1/2" = | 8.6 lf | 3" | 1 1/4" = | 5.1 lf |