

**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 1/4" 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 @ 1/4 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<br>(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<br>(Any coating with no solvents)<br>(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              |