

HIGH SOLID EPOXY TERRAZZO BINDER

DESCRIPTION

MAGIECHEM 817 is a two component epoxy Terrazzo binder, self-primer, smooth finish, 100% solid content and unlimited matrix colour.

MAGIECHEM 817 has been developed especially to be installed in commercial and institutional areas such as airports, banks, building lobbies, hospitals, schools, shopping centres and more.

MAGIECHEM 817 has been developed especially for indoor applications where there is an extremely high foot traffic and durable decorative, seamless finish. A high abrasion and chemical resistance could be achieved by polyurethane top coat like **MAGIECHEM 3UV** (with Nanoparticles in to block UVB and UVA light) or **MAGIECHEM 142**.

ADVANTAGE

- Seamless, waterproof and easy to maintain.
- Excellent abrasion, chemical and UV light resistance
- Unlimited choice of colors without minimum order
- Could be used as a binder for recycling dry glass to meet Green Building Programs.
- Extremely low cost at long term compared to the other floor coating.
- Thin layers and heavy duty floors with low weight
- Meet all designers and architects needs.
- Zero VOC and meet LEED program

APPLICATION INSTRUCTIONS

All surfaces must be dry and free of oil, grease, dust, silicone, wax or any other contaminant.

To prevent Epoxy Terrazzo cracking, we recommend 30 mils of membrane **MAGIECHEM 293** before the application of the Terrazzo. **MAGIECHEM 293** will act as an anti fracture shield.

Concrete: Clean, 28 days aged and mechanically prepared to get CSP 3 profile at the minimum

Metal: Sandblast or grinding machine in order to get SSPC-SP10 profile, than apply immediately before oxidation

Wood: 2 sheet of 3/4" Plywood screwed at 1 feet and the Plywood must be cross to get the higher load.

APPLICATION

The workability and the flow could be affect by the percentage of the fine aggregates (Marble dust), as we know fine powder absorbs more binder than the coarse aggregates. Bigger aggregates need less binder to get good flow but will need more binder for grout.

Epoxy Terrazzo could be applied by traditional method of screed box and trowel, plus some broad cast of aggregates for nice and perfect finish. Or could be applied as a slurry plus broadcast with the mix of Marble chips blend and compacted with the helicon machine.

Applicator could add more Marble dust to adjust the thixotropy of the Epoxy Terrazzo according to thier need.

MAGIECHEM Terrazzo mix provided below is used to determine all physical properties and could be used as a starting mixing point indicator.

All the material for the mix including Marble dust, Marble chips and the binder should be preconditioned at least 24 hours at 23 °C ± 3 before application to get an easy application and to achieve the best performance.



MAGIECHEM

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| • MAGIECHEM 817 | 3.78L (1 US gal.) |
| • Marble dust | 1.5 to 2.3 kg (1 lb. to 5 lb.) |
| • Marble chips blend (#0, #1) | 11 to 13 kg (24 lb. to 30 lb.) |



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APPLICATION suite

Premix Part A and B separately than Pour the part A into mixing paddle vessel and add the B part, mix for 1 min while mixing add slowly Marble dust, than add selected Marble Chips blend or other dry selected aggregates.

mix for 2 minute to homogeneous all the mix, then pour MAGIECHEM Terrazzo onto the creed box pre-adjusted thickness and pull the screed from the handle slowly, broad cast more chips if needed than compact with a blue trowel steel.

Be sure to spread the new mixed material across the transition of the previous one before skim start to show on the surface.

Wait 16 hours, than apply one mix only the binder Part A and B according to the mixing Ratio (4:1 by volume) with a flat squeegee let it dry for 24Hours than started the grinding operation.

Sealed MAGIECHEM Terrazzo with MAGIECHEM 300UV to protect it from the UVA and UVB light and to improve the abrasion resistance. We could use other MAGIECHEM coating as a finish coating but we have to consult MAGIECHEM REP for recommandations.

QUALIFICATION AND QUANTIFICATION

Color:	Magiechem Standards, Other match could be done with extra \$\$
VOC:	10 g / l
Mix:	4 parts of A and 1 part of B by volume
Pot life:	20 minutes, for a mass of 500g
Method of application:	blue trowel steel or creed box for the matrix, Flat squeegee for the gout,
Recommended thickness:	1/4" (6 mm) or 3/8" (9 mm) for the matrix and 15 mils per coat for the grouting.
Number of coat:	1 layers matrix at 1/4" or 3/8" plus 1 or 2 grouts plus top coat.
Yield:	0.3 m ² / L @ 6 mm (12 ft ² / gal) @ (1/4") or 0.2 m ² /L @ 9 mm (8 ft ² /gal) @ 3/8" tick.
Recoat:	16 to 48 hours
Curing time:	Dry to touch 8 hours and full cure 7 days at room temperature (23°C & 50% H.R)
Shelf Life:	1 year in original unopened container stored at 25°C ± 10°
Packing:	18.9 liters (5 gallons US)
Cleaning solvent:	MAGIECHEM 211

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TECHNICAL SERVICES AND WARRANTY, The information contained in this data sheet is based on trials that we believe valid. However, when using the conditions depending on the application of our control. The seller and/ or the manufacturer disclaim any responsibility except to replace the product when proven defective. For all assistance, consult MAGIECHEM



MAGIECHEM

SURFACE/GALLON					
Thickness (mils)	1	4	8	10	20
Gallon/sq.ft	1600	400	200	160	80