

100% SOLID UNIVERSAL EPOXY COATING

DESCRIPTION

MAGIECHEM 9461 is a two component 100% solid epoxy-based self-leveling coating.

MAGIECHEM 9461 can be applied by conventional method and will give a strong finish with a ceramic look once it is dry.

MAGIECHEM 9461 has a good impact resistance, chemical resistance, compression resistance with an excellent internal flexibility.

MAGIECHEM 9461 is for indoor application where a high traffic or / and high humidity is present.

MAGIECHEM 9461 could be used alone or with quartz aggregates to give a strong and decorative floor finish.

ADVANTAGES

- Excellent chemical resistance.
- Excellent mechanical proprieties.
- Excellent abrasion resistance.
- Met LEED requirement.
- Versions TX and AS are available for floors finished with textures in "orange peel" regular (TX) or more aggressive (AS: Anti-slip).

APPLICATION INSTRUCTIONS

The surface must be free of all contaminants such as oil, grease, wax, etc...

Concrete: Mechanical or chemicals preparation (Acid wash / neutralization) depending on the conditions.

Metal: Sand blasting or another Jet.

Wood: Sand and clean.

APPLICATION

MAGIECHEM 5076 where the % moisture in the concrete is between yellow and green, use a Delmhorst (Scales measurement) or 3.5% and 5% at the rate of 240-280ft²/U.S. gal (6-8 mils DFT).

MAGIECHEM 9461 where the concrete is dry, apply a stretch coat at the rate of 6-8 dry mils (240 to 280 ft²/US gal followed by **MAGIECHEM 9461** according to the chosen finish:

Smooth Floor Coating without aggregates

Apply a layer of **MAGIECHEM 9461** from 14 to 16 mils at 4m²/l (about 100 ft²/U.S.gal), on a primed surface; spread evenly with a notch squeegee and roll on with a high quality roller (5 or 6 mm line free roller), which doesn't leave any hair to have a mirror finish.

Smooth Floor coating with aggregates

Mix 2 parts A to 1 part B (2A:1B by volume), then add 3 parts (30-70 mesh) of aggregates at desired flow. Spread the mixture with ¼"

notched squeegee at the rate of 60 ft²/U.S.gal) and roll on with a short hair nylon texture roller.

Broad casted system (1/8" tick)

Mix 2 parts A and 1 Part B (2A & 1B by volume), then add 3 parts recommended aggregates. Spread the mixture with a screed box at 55ft² / US gal and even with a short hair roller (Nylon). Then broadcast the 30 mesh (selected silica sand) aggregates until saturation. Allow to cure over night, remove excess aggregates then apply two coats at 10 mils each.

Trowled system (1/4" tick)

Mix A&B separately and then mix 2 parts of A to 1 part of B (2:1 by V/V) and add 8 to 10 kilos 24 mesh Quartz aggregates (colored or not) per liter. Spread with trowl at ¼". Then joint with two (2) coats of resin (mix of A& B) at 10 mils per coat.



MAGIECHEM

PRÉCAUTIONS

- Consult MSDS before use.
- Do not use the equipment if the substrate temperature is below 5 ° C / 41 ° F.
- Wait at least 5 min before starting to roll
- Ensure good ventilation.
- Roll on by block of surface as large as possible in order to minimize the variation of color at the junction of the adjacent sections.



100% SOLID UNIVERSAL EPOXY COATING

QUALIFICATION AND QUANTIFICATION

Color: Standards of Magiechem

Mix: 2 parts A and 1 part B in volume

V.O.C.: ≤ 10 g/l (≤0.08 lb /gal. US)

Pot life: 20minutes Mass of 0.5 kg (1.1lbs)

Recommended thickness for:

Coating: 2 coats of 400 microns (15mils)

Broad cast: 1/8" (3mm)

Trowel: 1/4" (6 mm)

Dry to touch: 6 to 10 hours

Solvent Cleaner: MAGIECHEM 211

Recoat: 16 to 48 hours

Shelf Life: 1 year in original unopened container

Light Traffic: 24 hours

Packaging: 11.34 and 56.7 liters (3 and 15 gallons US)

Complete: 7 days

Diluent (If necessary): MAGIECHEM 211 up to 5 % max.
(50ml/l or 6.4oz/gallon US)

PHYSICAL PROPERTIES		WITHOUT AGGREGATE COATING	RESIN RICH WITH AGGREGATE COATING
PROPERTIES	TEST	RESULTS	RESULTS
Compressive strength	ASTM D695	113 Mpa (16385psi)	+ > 120 Mpa (17400 psi)
Flexural strength	ASTM D790	10.7 Mpa (1551.5 psi)	29.8 Mpa (4321 psi)
Tensile strength	ASTM D638	27.9 Mpa (4045psi)	19 Mpa (2755 psi)
%Elongation	ASTM D638	7%	6.6%
Adhesion to concrete	ASTM D4541	≥3.5 Mpa with damage in concrete	3.5 Mpa with damage in concrete
Hardness	ASTM D2240	72-76	78
Impact resistance	ASTM D3029	0.5 g/l	8.6 joules

TECHNICAL SERVICES AND WARRANTY

For assistance, consult a representative of MAGIECHEM products.

The information contained in this data sheet is based on trials that we believe valid. However, when using, the conditions of application are beyond our control, the seller and / or the manufacturer disclaim any responsibility except to replace the product proves defective.



MAGIECHEM

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

