

FAST DRY FLEXIBLE EPOXY/URETHANE 100% SOLID BINDER

DESCRIPTION

MAGIECHEM 9028 is a fast dry, self-leveling, 100% solid two-component flexible epoxy binder, modified with polyurethane.

MAGIECHEM 9028 is a very fast dry flexible epoxy binder providing a better resistance to cracks and impacts allowing a quick return to service within a couple of hours.

MAGIECHEM 9028 can be used on hard wood, vinyl tile or concrete in all areas where we do not have a large time frame for preparation, or installation of two coats. **MAGIECHEM 9028** permits you to prepare and to apply two coats of the epoxy within 4 hours and can cure in 8 hours at 23°C.

MAGIECHEM 9028 is the right product for corridors, garage entrances, crack bridging, curves, parking deck top coat and all places where there are a lot of vibrations.

MAGIECHEM 9028 can be mixed with dry aggregate silica sand or quartz 24-/70 mesh for a thicker layer at 1/8" or more.

ADVANTAGES

- Fast cure in 2 to 4 hours at 23°C.
- Fast cure in 6 to 10 hours at 5°C.
- Excellent adhesion to wood and concrete.
- Excellent flexibility and elongation.
- Just the right viscosity for levelling floors.
- Excellent resistance to salts and car liquids.
- Meets LEED requirements

INSTALLATION INSTRUCTIONS

The surface must be dry and free of oil, grease, wax, curing compounds, rust and other contaminants.

Concrete: Sand blast or use a diamond grinding machine to achieve a CSP3 minimum profile .

Mixing: Mix the part A and the part B separately, then pour the part B into the part A (in a large container). Continue mixing with a drill for 2 min then spread on the floor with a notched squeegee (5/32") and back-roll.

Note: For better work time, Do not waste time, as the speed of the chemical reaction is very rapid.

APPLICATION

Recommended primer:

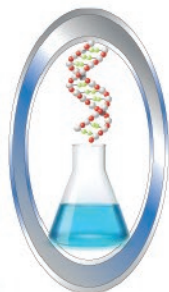
- **MAGIECHEM 5076** where the % moisture in the concrete is between yellow and green, use a Delmhorst (Scales measurement) or between 3.5% and 5%, at the rate of 240 – 280 ft²/US/ gal (6-8mils)
- **MAGIECHEM 9028** where the concrete is dry, apply a stretch coat at the rate of 6 to 8 mils (240 to 280 ft²/US/gal followed by **MAGIECHEM 9028** according to the chosen finish.

Smooth Floor Coating without aggregates: Apply two (2) coats of MAGIECHEM 9028 at 15 to 20 mils = 4m²/l (about 80 to 100 ft²/US gal) per coat, on a primed surface; spread evenly with a notched squeegee and back-roll with a high quality roller (5 or 6 mm lint free roller).

Smooth Floor coating with aggregates: Mix 1 part A to 1 part B (1A:1B by volume), then add 2 parts (30-70 mesh) of dry aggregates at desired flow. Spread the mixture with 1/4" notched squeegee at the rate of 60 ft²/U.S. gal) and back-roll with a short nap roller.

Broadcast system: Mix 1 part A and 1Part B (1A & 1B by volume), then spread MAGIECHEM 9028 on the primed surface at the rate of 80 ft²/ US gal, with a notched squeegee and back-roll with a high quality roller. Then broadcast 30 mesh (selected silica sand) aggregates until saturation. Allow to cure overnight, remove excess aggregates, then apply two coats at 10 mils each, or alternatively, 15 mils plus 5 mils.

Troweled system (1/4" thick): Mix A&B separately and then mix 1 part A to 1 part B (1:1 by V/V) and add 6 to 8 kilos 24 mesh Quartz aggregates (colored or not) per liter. Spread with a trowel at 1/4" thick. Then apply two (2) joint coats of resin (mix of A & B) at 12 mils per coat.



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PRECAUTIONS

- Consult MSDS before use.
- Do not apply if the substrate temperature is below 4 ° C / 39 ° F.
- Wait at least 5 min before back-rolling.
- Ensure good ventilation.
- Roll by block areas as large as possible in order to minimize the variation of color at the junction of the adjacent sections.

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QUALIFICATION AND QUANTIFICATION

Color: Magiechem standard colors

V.O.C.: ≤ 10 g/l (≤ 0.08 lb /gal. US)

Mix: 1 part A and 1 part B by volume

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

Recommended thickness for:

Coating: 2 coats (18mils)/ coat @ (100 ft²/ 1 gal US)

Broad cast: 1/8" (3mm) @ (55 ft²/ 1 gal US)

Trowel: 1/4" (6 mm) @ (25 ft²/ 1 gal US)

Dry to touch: 1 to 2 hours

Recoat: 4 to 8 hours

Light Traffic: 10 hours

Complete: 7 days

Dilute (if needed): with MAGIECHEM 211 up to 5 % max. (50ml / L or 6.4 oz/ gal US)

Solvent Cleaner: MAGIECHEM 211

Shelf Life: 1 year in original unopened container

Packaging: 7.56L and 37.8L/ (2 and 10 gallons US)

Storage Stability: 1 year in unopened container at room temperature 13°C to 30°C.

PHYSICAL PROPERTIES		WITHOUT AGGREGATE COATING
PROPERTIES	TEST	RESULTS
Compressive strength	ASTM D695	≥60 Mpa (≥8700 psi)
Flexural strength	ASTM D790	≥6.6 Mpa (≥957psi)
Tensile strength	ASTM D638	≥6.6 Mpa (≥957psi)
% Elongation	ASTM D638	≥100%
Adhesion to concrete	ASTM D4541	≥3.5 Mpa with damage on concrete
Hardness Shore D	ASTMD2240	70 ±5
Calculated VOC	ASTMD2396	0.5 g/l

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 depending on the application of our control. The seller and/ or the manufacturer disclaim any responsibility except to replace the product when proven defective.



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

