

SELF-LEVELING CEMENTITIOUS POLYURETHANE FLOORING SYSTEM

DESCRIPTION

MAGIECRETE SL Self-leveling Cementitious Polyurethane Flooring System is a pourable, solvent-free, cementitious polyurethane floor topping system designed to provide a tough and durable, non-slip textured surface for wet and dry production areas predominantly in the Food and Beverage Industry.

MAGIECRETE SL Self-leveling Cementitious Polyurethane Flooring System is a squeegee application. Magiecrete SL self-leveling flooring system is ideal for use in the Food and Beverage Industry.

MAGIECRETE SL Self-leveling Cementitious Polyurethane Flooring System is designed to protect concrete slabs against organic and inorganic chemical compounds, bacterial growth and can withstand thermal shock under extreme cold and heat steam treatments.

ADVANTAGES

- Excellent thermal shock resistance
- Excellent adhesion to wet and dry concrete
- Excellent chemical resistance
- Excellent abrasion resistance
- Easy to apply, easy to clean and sterilize
- Wide service temperature range (-18°C to 80°C)
- High impact resistance
- Zero VOC's, odourless and non-tainting
- Seamless waterproof slip-resistant floor topping
- Will bond to mild steel and water-resistant plywood
- Meets LEED requirement.

INSTALLATION INSTRUCTIONS

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

The surface must be cleaned mechanically with a grinding machine or sand blast before application.

To provide a better anchor cut with a saw, cut a reglet 6mm (1/4 in) deep by 4.8 mm (3/16 in) wide, running at least 150mm (6 in) from the perimeter edges and parallel to doorways, drains and walls.

Mixing Instructions: Mix part A and part B separately then mix A and B in large container (20L pail) with a drill at 400 -800 rpm max then add the part C (the cementitious admixture) pouring slowly over a 30 second period. **DO NOT DUMP POWDER INTO RESIN, ADD GRADUALLY.** Keep mixing for 2 min. more. During the mixing time scrape down the sides and bottom of the pail with a flat or straight edge trowel at least once to ensure complete mixing of all parts (A+B+C).

MAGIECRETE SL Self-leveling Cementitious Polyurethane Flooring System must be applied immediately for best working time and results.

Apply the mixed product onto the prepared floor and spread with a trowel, squeegee or pin rake T bar.

Spread the material onto the floor at an average wet thickness layer of 4 mm to 6mm (3/16-1/4 in) and immediately back- roll with a spike roller to release entrapped air. Broadcast some dry 32 mesh sand aggregate into the coating for increased anti-slip resistance.

PRECAUTIONS

- Consult MSDS BEFORE USE.
- Could be applied as low as 5°C (41°F)
- Do not apply on damp concrete to avoid craters and blistering, due to outgassing
- Keep record of moisture and temperature every 60 min while applying.



MAGIECHEM



SELF-LEVELING CEMENTITIOUS POLYURETHANE FLOORING SYSTEM

QUALIFICATION AND QUANTIFICATION

Standard colours: Grey, Green, Red and Cream
Custom colors could be matched at an additional cost.

VOC = 0 g/litre

Cure time: at 21°C:

- Foot Traffic: 18-36 hours
- Light Traffic: 36-48 hours
- Heavy Traffic: 120 hours

Full Cure: 2 weeks

The cure time could be extended if the temperature is less than 21°C

Mixing ratio (by volume): 1A:1B for resin (liquids) + 1 part C of dry mix at 1/4 in)

Service temperature: -18°C to 80°C

Pot life – working time at 25°C: 15 minutes

Note: Pot life is shorter at higher temperatures. Do not use below 5°C or above 30°C)

PHYSICAL PROPERTIES	TEST	RESULTS
Abrasion resistance CS17 (Wheel at 1kg Load for 1000 cycles)	ASTM C-501	35 mg loss
Coefficient of Friction (standard slip-resistance)	ASTM D-2047	0.9
Compressive Strength	ASTM C-579	62 Mpa (8,990 psi)
Flexural Strength	ASTM D-790	35 Mpa (5,075 psi)
Impact Resistance at 125 mils	MIL D-3134	Pass
Tensile Strength	ASTM D-638	15 Mpa (2,175 psi)
Thermal shock resistance	ASTM C884	Pass
Adhesion to concrete	ASTM D 4541	>3.5 Mpa with damage to concrete
Hardness Shore D	ASTM D2240	>84

Packaging

MAGIECRETE SL is a 28 kg./ kit of pre-packed 3 component system, 1 gallon Part A , 1 gallon Part B and one bag of 19 kg Part C as a cementitious dry mixture.

MAGIECRETE SL is available in multiple standard colours. Custom colors could be matched at an additional cost

Storage Conditions

MAGIECRETE SL must be stored indoors on the shelf at ambient temperature above 15°C and below 30°C, avoiding direct sunlight. KEEP FROM FREEZING.

MAGIECRETE SL has a 6 month shelf life.

Health and Safety

Use under well ventilated conditions and wear rubber gloves when handling the product. Avoid contact with eyes and prolonged contact with skin. If contact occurs, flush immediately with water and seek medical attention if irritation occurs. Harmful if swallowed. Do not induce vomiting. Drink 1-2 glasses of water or milk. Keep product out of reach of children. Read published Material Safety Data Sheet for additional information.

Coverage / kit

3.4 m² at 4.8mm (36ft² @ 3/16 in.)

2.4 m² at 6.0mm (26ft² @ 1/4 in.)

TECHNICAL SERVICES AND WARRANTY

For assistance, consult a representative of MAGIECHEM products.

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



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