



Thermocem 130

Product Description

A high-performance, solvent-free, self-leveling floor coating based on epoxy resin and Portland cement modification. Engineered to deliver exceptional mechanical strength, superior resistance to thermal shock, and robust chemical durability, it is ideally suited for demanding industrial environments and substrates exposed to aggressive conditions.

Product uses:

- Food, Pharmaceutical, and Chemical Industries.
- Laboratories and Research Facilities.
- Production and Processing Zones.
- Factories, Warehouses, Hospitals, and Educational Institutions.
- All Industrial and Commercial Floors.
- Laboratories

Properties

- Exceptional Chemical Resistance
- Superior Mechanical Strength
- Solvent-Free Composition
- Anti-Slip Surface Finish
- High Thermal Resistance
- Moisture-Tolerant Application.

TECHNICAL PROPERTIES

<i>Appearance/Color</i>	Glossy / RAL Color Card
<i>Density:</i>	1.6 kg/liter (Mixed)
<i>Volume solids %:</i>	100 %
<i>Theoretical spreading rate:</i>	0.5 m ² /ltr / 0.312 m ² /kg (2mm DFT)
<i>Consumption:</i>	2 ltr/ m ² (3.2 kg/m ²)
<i>Recommended DFT:</i>	3-4 mm
<i>(Dry Film thickness)</i>	
<i>Flash Point:</i>	130°C. /266 °F.
<i>Bond strength:</i>	3.55 MPa (concrete failure) (ASTM D4541-85)
<i>compressive strength</i>	≥70 MPa (ASTM C109)
<i>Flexural Strength:</i>	≥20 MPa (ASTM C348)
<i>Water absorption:</i>	< 0.5% (ASTM D570)
<i>(1 hr immersion in boiling water)</i>	
<i>Open time:</i>	1 hours (23°C and 50% R.H.)
<i>Surface dry:</i>	5 approx. hour(s) 23°C/73.4°F 50% R.H
<i>Light foot traffic</i>	14-18 hours (23°C and 50% R.H.)
<i>Full dry:</i>	24 hours (23°C and 50 % R.H.)
<i>Full cure time:</i>	7 days (23°C and 50 % R.H.)
<i>Application temperature:</i>	+8 °C/46.4° F and +35 °C/ 95°F
<i>Min. cure temperature:</i>	+10°C/50°F



Application Details

<i>Mixing Ratio:</i>	Component A: 22– Component B: 2.5 (By weight)
<i>Application method:</i>	Metal Trowel
<i>Thinner:</i>	Do Not Thin The Product
<i>Thinner Amount:</i>	Do Not Thin the product

Surface Preparation:

- Surface must be dry, clean and free of all contamination such as dirt, oil, grease, and coatings etc. which hinder adhesion.
- Surface must be firm and have enough strength. If in doubt, apply a test area before beginning.
- Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed.
- All dust, loose and friable particles should be removed from the surface before application with brush and/or vacuum cleaner.
- Grinding by diamond disk should take over the place and all the dust must be removed by vacuum machine.
- All the cracks must be repaired by epoxy filler or epoxy mortar.
- A and B components should be thoroughly mixed for 2-3 minutes and then Component C is added gradually in order to achieve a homogeneous mix using a low speed electric stirrer or other suitable equipment until a homogeneous mixture has been achieved.

PRECEDING COAT:

- Top Floor 600-SF
- Top Floor TS 650-MT
- Top Floor FB 700

Important Remarks:

- Surfaces must have enough structural strength.
- Concrete should have minimum of 25 N/mm² compression resistance and minimum 1, 5 N/mm² tensile strength.
- Applications below 10°C should be avoided.
- High temperatures lower the pot life of the product, while low temperatures extend cure time and consumption.
- Be careful about product mixing ratios.
- The surface should be protected from moisture and rain for 8-10 hours after application.
- All application tools and equipment should be cleaned with thinner immediately after the use. Cured material can only be removed mechanically.
- Use only where application and drying can proceed at temperatures above: 10°C/50°F. The temperature of paint itself should be 15°C/59°F or above. Apply only on a dry and clean surface with a Temperature above the dew point to avoid condensation. In confined spaces provide adequate ventilation during application and drying.



Shelf life & Storage:

12 months from date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +30°C.

Safety:

For information and precautions on the safe handling, transportation storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

Legal Notice:

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