InsuFloor E 4800

High build, solvent-free epoxy coating for concrete floors.

DESCRIPTION OF PRODUCT

•InsuFloor E 4800 is a two component, solvent-free epoxy floor coating system.
•InsuFloor E 4800 is applied to produce a textured or slip-resistant finish.
•InsuFloor E 4800 also provides a high build pigmented sealer as a topcoat for InsuFloor E 4000 to provide a decorative and easy to clean floor.

PRIMARY USES

•InsuFloor E 4800 has good wear and abrasion resistance and is suitable for use in many industrial applications. It can be used as a surface coating where a hygienic and high gloss appearance is required.

•InsuFloor E 4800 provides impermeable protection

against common oils, greases, lubricants, aviation fuels or oils. In addition, it offers good general chemical resistance, but as in all corrosive situations, a full analysis of operating and exposure conditions is required, followed by reference to chemical resistance data to ensure product suitability.

−InsuFloor E 4800 is used extensively in the following industries:

- Pharmaceutical and other medical laboratory situations.
- Flooring dairies, bakeries, mills and confectioners
- Industrial and commercial kitchens.
- Engineering – including aircraft hangars, car production facilities and maintenance areas.
- Warehouses – for installations with a medium frequency and volume of traffic.

ADVANTAGES

- Excellent wear and abrasion resistance.
- Solvent-free Slip resistance finish available.
- Easily applied.
- Textured high gloss finish.
- Good general chemical resistance.
- Attractive and serviceable colours.

TYPICAL DATA OF HARDENED MATERIAL

Density(Part A +Part B)	1.4 kg/ Liter
re-coat time:	24 hours
Packing:	Available in 5 kg or 15 kg unit
Color:	Grey and available in other colors

GUIDE TO APPLICATION SURFACE PREPARATION

• All contamination must be removed; clean substrate is exposed. Mechanical means of preparation (such as light grit blasting) are preferred, followed by the removal of dust and other loose debris, using an industrial vacuum.

• A clean prepared surface will ensure adhesion between substrate and coating and will improve the long-term durability.

• The ideal surface profile for the application of InsuFloor E 4800 is the texture of medium grit sand paper.

•Ensure that the concrete is at least 28 days old. Do not apply if the moisture content of the concrete substrates exceeds 4%.

•The surface over which the InsuFloor E 4800 is to be laid must be flat and roughened.

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PRIMING

•All concrete surfaces to be overlaid with InsuFloor E 4800 should be primed with InsuFloor E 4000. Add the solvent to the base and reactor components, after they have been decanted into the mixing container; then mix the base and reactor components together until all striations have disappeared. Apply the mixed material to the dry substrate at the rate of 4-5m²/kg using a medium or short-haired roller. Allow the primer to become completely tack-free before over-coating with InsuFloor E 4800.

MIXING

•Pour the base and the reactor into a suitable mixing vessel and mix using a slow speed drill with spiral mixing paddle attached for three minutes, until all striations have disappeared and a uniform colour is obtained.

APPLICATION

• Ensure that the substrate is free from dust and building debris and that the area has been secured to prevent intrusion of dust, airborne particles, insects, small animals, etc. Make sure that windows and doors are closed.

• To avoid colour deviation from one batch of the resin to another, only use resins with the same batch number in the same area.

• Apply two coats of InsuFloor E 4800 by short/medium-haired roller and allow 24 hours between coats. The second coat should be applied at a right angle to the first coat.

• If the application of InsuFloor E 4800 is delayed more than 24 hours after the application of the primer, then the primer must be thoroughly abraded to give an adequate mechanical key and solvent wiped. InsuFloor E 4800 should be allowed to dry 24 hours prior to receiving light traffic. Full cure is achieved after 7 days.

EQUIPMENT CARE

•Remove uncured InsuFloor E 4800 immediately from tools and equipment, using solvent.

SLIP RESISTANCE

InsuFloor E 4800 provides a smooth, glossy finish.
A slip-resistant finish can also be achieved by evenly sprinkling InsuFloor Filler on the wet applied first coat of InsuFloor E 4800.
Leave it till it reaches initial cure and remove the excess aggregate by vacuum cleaner.

•Apply a topcoat of InsuFloor E 4800 within 24 hours ensuring that a continuous film is achieved. Please note that some reduction in gloss will result.

COVERAGE

Approximately 0.250-.300kg/m²/coat.

STORAGE

Store out of direct sunlight, clear of the ground, on pallets protected from rainfall. Avoid excessive compaction and protect from extremes of temperatures. In tropical climates, the product must be stored in an air-conditioned environment.

• Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

• For specific storage and disposal advice, consult Insumat's Technical Services Department.

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TECHNICAL INFORMATION

Shore D Hardness	~76 (7 days / +23 °C) ~75 (7 days / +23 °C)	DIN 53505 ASTM D2240
Abrasion Resistance	~35 mg (CS 10/1000/1000) (7 days / +23 °C) ~76 mg (CS 10/1000/1000) (7 days / +23 °C) ~60 mg (CS 10/1000/1000) (7 days / +23 °C)	DIN 53109 DIN 53505 ASTM D4060
Compressive Strength	~ 53 N/mm² (28 days / 23 °C) ~ 49 N/mm² (28 days / 23 °C)	(EN196-1) ASTM C579 Method B
Tensile Strength in Flexure	~ 30 N/mm² (28 days / 23 °C) ~ 20 N/mm² (28 days / 23 °C)	(EN 196-1) ASTM D790
Tensile Strength	21 N/mm²	ASTM D638
Tensile Adhesion Strength	> 1,6 N/mm² (failure in concrete) > 1,5 N/mm² (failure in concrete)	ASTM D4541 ISO 4624
Chemical Resistance	Resistant to many chemicals. Contact INSUMAT technical service for specific in- formation.	
Temperature Resistance	**Exposure*** / **Dry heat** Permanent / +50 °C Short-term max. 7 d / +80 °C Short-term max. 12 h / +100 °C Short-term moist/wet heat* up to +80 °C where exposure is only occasion- al (steam cleaning etc.).	

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SHELF LIFE

Up to 12 months if stored in unopened containers according to manufacturer's instructions.

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NOTE

•Field service, where provided, does not constitute supervisory responsibility. For additional information, contact Insumat's representative.

•Insumat reserves the right to have the true cause of any difficulty determined by accepted test methods.

QUALITY STATEMENT

All products manufactured by Insumat Egypt, are manufactured to procedures certified to conform to the quality, environment, health & safety management systems described in the ISO 9001:2015, standard.

* Properties listed are based on laboratory-controlled tests.

Actual measured data may vary due to circumstances beyond Insumat's control.

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