

InsuFloor E 4400

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

DESCRIPTION OF PRODUCT

- InsuFloor E 4400 is a two component, solvent-free epoxy floor coating system, which provides hardwear-chemical and abrasion resistant flooring system .
- InsuFloor E 4400 is applied to produce a textured or slip-resistant finish.
- InsuFloor E 4400 also provides a high build pigmented sealer as a topcoat for InsuFloor E 4001 to provide a decorative and easy to clean floor.

PRIMARY USES

- InsuFloor E 4400 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. Also it can provide an anti-slip finish which is suitable for use in wet areas.
 - InsuFloor E 4400 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 4400 is used extensively in the following industries:**
- Pharmaceutical and other medical laboratory situations.
 - 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

Mixed density:	1.42 kg/liter
Packing:	Available in 5 kg or 15 kg unit
Consumption:	0.250 : 0.350 gram/m ²
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), 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 4400 is the texture of medium grit sand paper.

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- Ensure that the concrete is at least 28 days old. Do not apply if the moisture content of the concrete substrates exceeds 4%. The substrates can be considered sufficiently dry when the relative humidity at the surface falls to 75%.
- . The surface over which the InsuFloor E 4400 is to be laid must be flat and roughened.

PRIMING

All concrete surfaces to be overlaid with InsuFloor E 4400 should be primed with InsuFloor E 4001. 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 5-7m²/kg using a medium or short-haired roller. Allow the primer to become completely tack-free before over-coating with InsuFloor E 4400.

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 color 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.

- Apply one coat of Insufloor E4001 as a primer then after 24 hours Apply two coats of InsuFloor E 4400 by short/medium-haired roller and allow at 24 hours between coats.

- The second coat should be applied at a right angle to the first coat.

- InsuFloor E 4400 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 4400 immediately from tools and equipment, using solvent.

SLIP RESISTANCE

- InsuFloor E 4400 provides a smooth, glossy finish.
- A slip-resistant finish can also be achieved by evenly sprinkling InsuFloor on the wet applied first coat of InsuFloor E 4400.
- Leave it till it reaches initial cure and remove the excess aggregate by vacuum cleaner.

* Apply a topcoat of InsuFloor E 4400 within 24 hours ensuring that a continuous film is achieved. Please note that some reduction in gloss will result.

CHEMICAL RESISTANCE

InsuFloor E 4400 has been tested for resistance to the following chemicals through spillage, dripping and splashes, provided that regular cleaning/house-keeping must be applied whenever possible

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TECHNICAL INFORMATION

Shore D Hardness	- 81 (7Days / 23°C) (ASTM-D2240)
Abrasion Resistance	(CS 10/1000 Cycles/1000 g) (7 days / 23°C) (ASTM-D4060)
Compressive Strength	- 84 N/mm ² (7Days ASTM C579 - Method B)
Tensile Strength in Flexure	- 38 N/mm ² (7Days / 23°C) (ASTM-D790)
Tensile Strength	- 23 N/mm ² (7Days / 23°C) (ASTM-D638)
Temperature Resistance	Reaction to fire (Class A) For Flame Spread Index (FSI) and Smoke Development Index (SDI)
Service Temperature	It works in a temperature rang higher than +2°C & lower than +65°C
Water Absorption	< 0.1% according to ASTM D570



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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.

SHELF LIFE

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

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.

Manufacturing Insulating Materials and Products Company