

CAT. No. FLR-03-2412

ISO FLO EP

Heavy Duty, Self Leveling Epoxy Floor Topping

ISO FLO EP is a three-component system consisting of epoxy resin, graded quartz fillers and amine-type hardener. It is a 100% solids system and solvent free. This system is characterized with impact, abrasion and chemical resistance and specially designed as a heavy-duty topping for concrete floors, **ISO FLO EP** is self levelling and provide a dense, smooth, hygienic, easy to clean surface free of pockmarks and trowel marks. It is available in several standard colours and applied at thicknesses from 2 to 5mm.

APPLICATIONS

ISO FLO EP is used as a topping for concrete floors subject to abrasion, impact and occasional spillage of chemicals. Such floors include but not necessarily limited to: warehouses, pharmaceutical, hospital, aiseways, factory, assembly lines etc.

ADVANTAGES

- High mechanical strength
- Excellent abrasion, impact and chemical resistance.
- Hygienic, Smooth, easy to clean surface.
- Dense, seamless, colored surface. Durable and heavy duty.

TYPICAL PROPERTIES

	25°C	35°C
1. Pot Life.....	60minutes	30minutes
2. Initial hardness.....	24hours	12hours
3. Full cure.....	7days	6days
4. Compressive strength at 7 days.....	60 N/sq. mm.	
5. Flexural strength at 7days.....	35 N/sq. mm.	
6. Bond to concrete (Tensile pull-out).....	Greater than concrete cohesive strength (3 N/sq. mm)	
7. Chemical Resistance.....	Chemical resistance chart available upon request.	

DIRECTIONS FOR USE

SURFACE PREPARATION

Surface must be structurally sound, clean, dry and free from dust, oil, grease, coatings, curing compounds and other foreign material. Recommended methods for preparing concrete are: mechanical scarifying, captive blasting, rotary wire brushing acid etching, etc. Oil and grease should be removed using ISOLA CHEMICAL DEGREASER. Any chemical cleaning program should be followed by cleaning with water prior to mechanical preparation.

New concrete should be at least 28- day old. Do not apply topping on slabs where rising damp conditions exist.

SEALING

After preparing the surface apply ISOPRIME 30S by brush, roller or spray onto the concrete at the rate of 8 square meters per liter. Depending on the porosity of the substrate, ISOPRIME 30S may have to be applied in two coats. Each coat should be allowed to dry until tack free prior to over coating. ISOPRIME 30S should be dry before applying **ISO FLO EP**. Apply **ISO FLO EP** within 48 hours after priming.

MIXING

ISO FLO EP is supplied in pre-weigh pack. DO NOT add thinner or solvent. Mix the resin and hardener component first, ensuring thorough mixing. Next, slowly add the filler onto the liquid while simultaneously mixing the ingredients using a slow-speed electric drill fitted with a paddle. Mix for not less than 5 minutes until a uniform color is achieved. Apply immediately.

LAYING

Pour the material onto the sealed substrate and spread at the desired thickness using steel trowel or pin screed. Immediately after laying, **ISOFLO EP** should be rolled with a spiked nylon roller. Roll the surface with a back and forth motion to remove any entrapped air bubble and trowel marks. Further rolling can be carried out as long as a knife cut in the surface heals within 2 minutes.

JOINTS

ISOFLO EP should not span over expansion, construction and contraction joints. Joints should be designed and installed in accordance with generally accepted practice such as those recommended by ACI. Always provide isolation joints where topping abuts columns and walls. For expansion joints, use ISOTHANE 100 or ISOLASTIC PS. For construction / contraction, isolation joints use Poxithane 6000 (please refer to separate leaflets).

CLEANING TOOLS

ISOFLO EP can be cleaned-off from the tools while wet using ISOKLEEN.

FIRE HAZARD

ISOFLO EP do not constitute a fire hazard. ISOPRIME 30S and ISOKLEEN contains flammable solvents and should be kept away from open flames.

STORAGE/ SHELF LIFE

ISOFLO EP has a minimum shelf life of 12 months from date of manufacture when stored in cool, covered place below 35°Celsius.

PACKING/ COVERAGE

ISOFLO EP is packed in 27 kg kit, Parts A, B and C. Theoretical coverage are as follows:

2mm thick.....7.7 sq. meters.

4mm thick.....3.8 sq. meters.

HEALTH & SAFETY

Always use protective hand gloves, eye goggles and coveralls during application of this product. If accidentally spilled on the skin, wash immediately with soap and water. If eye contamination occurs, wash immediately with clean water and seek medical attention. Refer to MSDS for more safety information.

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Technical information, data are to be considered as typical values and not sales specification. Actual measured values may vary due to factors beyond our control. Indications concerning function and application of the products are empirical. Although the information is believed to be accurate, there is no warranty by ISOLA. None of the recommendations becomes part of the warranted quality of the products. Due to the fact that the conditions of individual use are beyond ISOLA's direct and continuous control, ISOLA disclaims all responsibility in connection with the use of its products and does not warrant against any loss direct or consequential

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