



RESSI EPO FS 5000 is a three-component solvent free epoxy resin, self-smoothing, heavy duty impact and abrasion resistant flooring system. It provides excellent mechanical resistance. Ressi EPO FS 5000 is suitable for use in food and pharmaceutical industry where high levels of hygiene and cleanliness are required. Due to its high abrasion resistance property, it is recommended to apply a top coat of appropriate Ressichem Epoxy flooring material to achieve the proper chemical and abrasion resistant properties. Ressi EPO 5000 is ideally suitable for chemical industries, laboratories etc. It is also highly suitable for floor applications in light, medium and heavy traffic industries.

ADVANTAGES

- ✓ Durable- high impact resistance.
- ✓ Hygienic- provides a dense, impervious, seamless floor surfaces which is easily cleaned.
- ✓ Good flow and levelling characteristics.
- ✓ Solvent free, non-toxic.
- ✓ Phenol free – can be used in food processing industries.
- ✓ Fast application – minimizes down time.
- ✓ Also available in a fast cure version for low temperature application.

LIMITATIONS

At higher temperatures pot life will be reduced. For working in cold climates RESSI EPO FS 5000 containers need to be kept in hot water baths. The material cannot be applied to areas exposed to direct sunlight.

TYPICAL PROPERTIES AT 25°C

Property	Test Method	Value
Component	-	Base Three: Hardener Filler
Mixed Form	-	Viscous liquid / Paste
Mixed Density	ASTM D 1475	1.75 kg/ltr ± 0.05
Pot Life	ASTM D 2471	45-60 mins
Gel time	ASTM D 2471	90 mins ± 10 mins
Drying time	-	6-7 Hours
Recoat Time		10-24 Hours
Full Cure		7 Days
Bond strength	ASTM D 4541	≥ 2 N/mm ² at 7 days
Flexural strength	BS 6319-3	30 N/mm ² at 7 days
Compressive strength	BS 6319-2	75 N/mm ² at 7 Days
Tensile Strength	BS 6319-7	17 N/mm ² at 7 Days
Chemical resistance	ASTM D 543	Resistant to various chemicals like mild acids, alkalis, fuels, grease, petrol etc.
Application temperature	-	+5°C to +40°C
Service temperature	-	+5°C to +70°C

Typical Results under laboratory conditions

SURFACE PREPARATION

Surfaces should be free from grease, oil, chemical contamination, dust, laitance and loose concrete. Appropriate surface preparation equipment such as shot blast, scarifier or grinder must be used to obtain sound substrate. This material is suitable for mostly concrete surfaces only. Surfaces which show any traces of oil must be degreased with a chemical degreaser prior to grit blasting. Cracks, pinholes, potholes should be repaired with the appropriate patch series repair materials or recommended Ressichem Epoxy putties. Uneven concrete should be levelled to produce a roughened flat surface. Uneven floors can be made levelled using the appropriate Ressichem SLS or PFS grades of flooring materials. New concrete floors should be at least 28 days old prior to the application of Ressi EPO FS 5000. Moisture content of the floor must be less than 5%. Expansion control and isolation joints in concrete should be carried through appropriate materials recommended by Ressichem.



PRIMING

Prepared surfaces should be primed using Ressi EPO Primer or an appropriate primer recommended by Ressichem. The primer should be brushed into the substrate using a stiff brush or roller and allowed to become tacky (10 – 20 mins) before the application of Ressi EPO FS 5000. The primer should not be allowed to dry. If the primer has dried additional coat of primer should be allowed to become tacky. If the surface is damp, it is preferred to use Ressichem Damp Seal as a primer coat which cures with the inherent moisture and will not adversely affect the adhesion of the top layer.

MIXING

Stir the base and hardener components separately. Mix thoroughly with a slow speed drill attached with the paddle for at least one minute (400-600 rpm). Add entire filler component slowly and continue mixing for two minutes to get uniform and homogenous mix. Scrape the sides edges and the bottom of the mixing container using a spatula and continue mixing for a further 2 minutes.

APPLICATION

Lay Ressi EPO FS 5000 over the prepared surface of while the primer is still tacky. Spread out with a notched trowel to a uniform thickness. Level the screed with a wooden float and compact to required levels. If the material is used as a final finish strike with a steel trowel to achieve a smooth resin rich surface finish. It can also be power floated to achieve a uniform surface. Where the floor is subjected to chemical, oil or water spillage or where hygiene is important, the finished floor must be sealed using an appropriate sealer or Epoxy top coat from the Ressichem range of products.

PACK SIZE

27 KG Pack (Three Components).

Part A Resin: 3.5 Ltr

Part B Hardener: 3.5 Lr

Part C: Filler 20 KG

COVERAGE

0.75 SFT / KG @ 5mm thickness.

HEALTH AND SAFETY

Ressi EPO FS 5000 is regarded as non-hazardous for transportation. Suitable gloves and masks should be worn during application. It is recommended that contact with skin and eyes should be avoided.