

Technical Data Sheet



Ressi EPO Tough Might is a 2 component epoxy resin based heavy duty, abrasion and impact resistant epoxy flooring. It is designed for trowel application in thickness of 300 microns to 4000 microns.

Uses

Ressi EPO Tough Might gives a tough, high abrasion and impact resistant topping. It is used either as a coating or a screed for floorings where excellent mechanical properties with superior abrasion and wear characteristics are required. It can be used for industrial floorings, warehouses, workshops, ramps, garages, airport maintenance areas, metal processing and engineering units and areas subject heavy traffic. It can also be used as a coving or patch repair product.

Advantages

- ✓ Excellent mechanical properties
- ✓ Can be easily over coated with any epoxy or PU Coating
- ✓ Excellent abrasion resistance and adhesion to concrete surfaces
- ✓ Excellent resistance to impact
- ✓ Easy to apply
- ✓ Early development of initial hardness minimizes down time
- ✓ 3 to 4 times stronger than typical concrete
- ✓ Good bond strength

Surface preparation

Surfaces should be free from grease, oil, chemical contamination, dust, laitance, and loose concrete. Appropriate surface preparation equipment such as shot-blast, Scarified or grinder must be used to obtain sound substrate. Surfaces which show any traces of oil must be degreased with a chemical degreaser prior to any surface preparation or grit blasting. Cracks, pinholes, potholes should be repaired with **Ressi EPO Crack Fill**. Uneven concrete should be levelled to produce flat surfaces. New concrete floors must be at least 28 days old prior to application. Moisture content of the concrete or cementitious floors must be less than 5%. Expansion, control & isolation joints should be carried through floors filled with a suitable sealant.



RESSICHEM (Pvt.) LIMITED

Plot # D-83, S.I.T.E., Industrial Area, Manghopir Road, Karachi-75530, Pakistan.
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Priming

Prepared surfaces should be primed using **Ressi EPO Primer**. The primer should be brushed into the substrate using a stiff brush or roller and allowed to become tacky (10-20mins) before the application of **Ressi EPO Tough Might**. The primer should be allowed to dry. If the primer has dried, additional coat of the primer should be applied and allowed to become tacky.

Mixing

Stir the base and hardener components separately. Once both components are mixed, they should be mixed together thoroughly using a slow speed drill attached with paddle for at least 3 minutes (400-600 rpm) until a uniform homogenous mix is achieved.

Application

Lay **Ressi EPO Tough Might** over the prepared surface whilst the primer is still tacky. Spread out with a notched trowel to a uniform thickness. Level the material using appropriate trowels and tools to the desired level. Stroke with a steel trowel to achieve a sealed resin rich surface. A Spiked roller can also be used to achieve a uniform surface.

Limitations

At higher temperatures pot life will be reduced. For working in temperatures below 5°C **Ressi EPO Tough Might** may need to be put in a hot water bath.

Pack Size

Ressi EPO Tough Might is available in 20 KG Pre packed Kits.

Part A 15 KG Part B 5 KG

Coverage

0.25 m²/Ltr at 4mm Thickness

Shelf life

6 Months from date of manufacture when stored under warehouse conditions in original unopened packaging. Extreme temperature / humidity may reduce shelf life.



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Typical properties at 25°C

Property	Value
Component	Two: Part A: Base Part B: Hardener
Mixed Form	Paste
Color available on request	Grey and other colors
*Mixed Density	1.2 Kg/ltr \pm 0.05
*Setting time	3-4 Hours
*Full Cure	7 Days
*Bond Strength	2 N / mm ²
*Flexural Strength	25 N / mm ²
*Compressive Strength	85 N / mm ²
*Tensile Strength	15 N / mm ²
*Chemical Resistance	Resistant to mild chemicals
Application temperature	+5°C to +40°C
Service Temperature	+5°C to +70°C

*Typical results under laboratory conditions

Health & Safety

The Packed material if **Ressi EPO Tough Might** is regarded as non-hazardous for transportation. Once Opened, Extreme temperatures may cause flammability. Do not reuse bags or containers and dispose them off as per local rules and regulations. Gloves and suitable masks can be worn during application. Please Refer to the MSDS of the product for further health and safety information.



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