RESSI EPO TOUGH MIGHT

HEAVY DUTY GENERAL PURPOSE EPOXY FLOORING

RESSICHEM®
adding life and value to your property

Ressi EPO Tough Might is a high-performance, two-component epoxy resin-based flooring system designed for heavy-duty and impact-resistant applications. It is solvent-free and formulated with high-grade Bisphenol A based resin and extremely durable high-grade polyamide-based curing agents. Suitable for trowel application in thicknesses ranging from 300 microns to 4000 microns, this product delivers a robust, high-abrasion, and impact-resistant surface. It is ideal for use as a coating or screed in environments that demand superior mechanical properties and exceptional wear resistance. **Ressi EPO Tough Might** is perfect for industrial flooring, warehouses, workshops, ramps, garages, airport maintenance areas, metal processing and engineering units, and areas subjected to heavy traffic. Additionally, it can be used for coving or patch repairs. **Ressi EPO Tough Might** is also compatible with a variety of surfaces such as concrete, metal, wood, ceramics and selected plastics and many other substrates.

ADVANTAGES

- ✔ Possesses outstanding mechanical properties, ensuring long-lasting durability and high performance under stress.
- ✔ It can be easily overcoated with epoxy or PU coatings for extended protection and enhanced appearance.
- ✔ Exhibits excellent abrasion resistance, making it ideal for high-traffic and heavily used areas.
- ✔ Provides exceptional impact resistance, safeguarding surfaces from damage caused by heavy objects and machinery.
- ✔ Ease of application allows for straightforward installation, reducing labor time and associated costs.
- ✔ Develops initial hardness quickly, minimizing downtime and allowing for faster return to service.
- ✔ Strength is three to four times greater than typical concrete, offering superior load-bearing capacity.
- ✔ Ensures strong adhesion to concrete surfaces, preventing delamination and extending the lifespan of the flooring system.
- ✔ Compatible with a variety of different materials.

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

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مضبوطی اور پائیداری کے لئے

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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 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 the following packaging.

1.4 KG:	1 KG Part A 400g Part B
14 KG:	10 KG Part A 4 KG Part B
28 KG:	20 KG Part A 8 KG Part B

SHELF LIFE

12 months from the date of manufacture when stored under warehouse conditions in original unopened packaging. Extreme temperature / humidity may reduce shelf.

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HEALTH AND SAFETY

The packed material of **Ressi EPO Tough Might** is regarded as non-hazardous for transportation. Containers which have been opened and used should be disposed off as per local rules and regulations of the area. Please refer to the MSDS for further health and safety guidelines.

TECHNICAL PROPERTIES @ 25°C

Appearance	-	Colored medium viscosity paint
Color	-	As per shade card provided (Please refer to shade card for color reference)
Mix Ratio (Part A: Part B)	-	100 : 40
Mix viscosity (cPs)	Theoretical	1000-2000
Mix Density g / cc	ASTM D 1475	1.15
Coverage per KG of material	-	16 SFT @ 500-micron thickness
Working time	-	90 minutes
Gel time	-	6 Hours
Tack Free time	-	11.5 Hours
Overcoat time	-	15 to 48 Hours (Depending upon coating thickness)
Time until foot traffic	-	24 Hours
Time until all traffic	-	96 Hours
Full cure time	-	7 to 14 days
Flexural Strength	ASTM D790	51.5 N/mm^2
Compressive Yield Strength	ASTM D695	95 N/mm^2
Compressive Strength	ASTM D695	56.9 N/mm^2 (Ultimate)

Note: At 40°C pot life will half so application should be planned accordingly.
Typical Results under Laboratory Conditions

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