RESSI EPO GLOSS MIGHT

HEAVY DUTY HIGH GLOSS EPOXY FLOORING

RESSICHEM®
adding life and value to your property

Ressi EPO Gloss Might is a two-component epoxy resin based heavy duty, mild chemical resistant, abrasion, and impact resistant epoxy floor. It is designed for trowel and self-level applications for thickness of 300 microns to 4000 microns. Ressi EPO Gloss Might offers a durable, high-abrasion finish that is resistant to mild chemicals and impacts. It is used either as a coating or a screed for flooring where excellent mechanical properties with superior abrasion and wear characteristics along with high gloss are required. It can be used for industrial flooring, warehouses, workshops, ramps, garages, airport maintenance areas, hospitals, laboratories, metal processing and engineering units and areas subject to heavy traffic. It can also be used as a coving or patch repair product. Ressi EPO Gloss Might is based on a specially modified Bisphenol A based resin which includes high gloss agents along with a cycloaliphatic clear curing agent suitable for such High gloss applications. This solvent free formulation aids the product to be applied in a variety of locations and applications. Ressi EPO Gloss Might is also compatible with a variety of surfaces such as concrete, metal, wood, ceramics and selected plastics and many other substrates.

ADVANTAGES

- ✔ **Excellent mechanical properties**: Provides superior strength and durability, making it ideal for high-stress industrial environments.
- ✔ **Can be easily over coated with any epoxy or PU Coating**: Ensures compatibility and seamless integration with other coatings for extended protection.
- ✔ **Excellent abrasion resistance and adhesion to concrete surfaces**: Offers long-lasting performance by firmly bonding to surfaces and resisting wear and tear.
- ✔ **Excellent resistance to impact**: Withstands heavy impacts without cracking or chipping, ensuring a durable flooring solution.
- ✔ **Easy to apply**: User-friendly formulation allows for straightforward application, reducing labor time and effort.
- ✔ **Early development of initial hardness minimizes down time**: Rapid curing process enables quick turnaround times for operational use.
- ✔ **3 to 4 times stronger than typical concrete**: Significantly enhances floor strength, providing a robust and reliable surface.
- ✔ **Good bond strength**: Ensures strong and lasting adhesion to various substrates, preventing delamination.
- ✔ **Unaffected by a wide range of acids, alkalis, and industrial chemicals**: Provides reliable protection in limited exposure chemical environments

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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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 Gloss 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 Gloss 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 Gloss Might** may need to be put in a hot water bath.

PACK SIZE

Ressi EPO Gloss Might is available in the flowing packaging

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

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TYPICAL PROPERTIES

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 g / cc
Coverage per KG of material	-	16 - 18 SFT @ 500-micron thickness
Working time	-	60 - 90 minutes
Gel time	-	5 - 6 Hours
Tack Free time	-	8 - 10 Hours (24 Hours if average temperature is below 25°C)
Overcoat time	-	24 to 48 Hours (Depending upon coating thickness)
Time until foot traffic	-	24 Hours
Time until all traffic	-	96 Hours
Full cure time	-	7 days (14 Days if average temperature is below 25°C)
Flexural Strength	ASTM D790	39.7 @ 7 Days
Compressive Yield Strength (MPa)	ASTM D695	54.5 @ 7 Days
Compressive Strength (MPa)	ASTM D695	102.1 @ 7 Days

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

SHELF LIFE

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

HEALTH & SAFETY

The packed material of Ressi EPO Gloss 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.

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NOTE:

If printed packaging not available, neutral packaging with label. Lot number and manufacturing date to be stamped at the back of each packaging.

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TECHNICAL DATASHEET RESSI EPO GLOSS MIGHT

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