

Ressi EPO Tough Might is a two-component epoxy resin based heavy duty and impact resistant epoxy flooring. It is designed for trowel application in thickness between 300 microns to 4000 microns. Ressi EPO Tough Might gives a tough, high abrasion and impact resistant topping. It is used either as a coating or a screed for flooring 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 overcoated 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 and minimization of down time.
- ✓ Anti-bacterial can be used for hygiene flooring protects.
- ✓ 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.

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.

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)	1000-2000
Mix Density g / cc	1.15
Coverage per KG of material	16 SFT @ 500-micron thickness
Working time at 25°C	90 minutes
Gel time @ 25°C	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	51.5 N/mm ²
Compressive Strength	95 N/mm ² (Maximum)
Compressive Strength	56.9 N/mm ² (Yield)

Typical Results under laboratory conditions – conforms to ASTM C 722