

Resi EPO Tough Might Econo is a two-component epoxy resin based heavy duty and impact resistant low gloss epoxy flooring. It is designed for trowel and free flow applications in thickness between 300 microns to 4000 microns. **Resi EPO Tough Might Econo** provides 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 flooring, 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. **Resi EPO Tough Might Econo** is based on Bisphenol A Based Resins and Phenalkamine based Hardeners. **Resi EPO Tough Might Econo** 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 for heavy-duty applications and high traffic areas.
- ✓ **Can be easily overcoated with any epoxy or PU Coating:** Allows for versatile finishing options, enhancing protection and aesthetic appeal.
- ✓ **Excellent abrasion resistance and adhesion to concrete surfaces:** Ensures long-lasting performance by resisting wear and bonding firmly to the substrate.
- ✓ **Excellent resistance to impact:** Protects flooring from damage caused by heavy loads and sudden impacts.
- ✓ **Easy to apply:** Simplifies the installation process, saving time and reducing labor costs.
- ✓ **Early development of initial hardness and minimization of down time:** Enables quick return to service, reducing operational disruptions.
- ✓ **3 to 4 times stronger than typical concrete:** Offers significantly enhanced load-bearing capacity and endurance.
- ✓ **Good bond strength:** Ensures a secure and stable application, preventing delamination or peeling.

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** or suitable epoxy primer recommended by Ressichem. 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 Econo**. 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 Econo** 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 Econo** may need to be put in a hot water bath.

PACK SIZE

Ressi EPO Tough Might Econo is available in the following.

1.6 KG:	1 KG Part A 600g Part B
16 KG:	10 KG Part A 6 KG Part B
32 KG:	20 KG Part A 12 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 Econo** is regarded as non-hazardous for transportation. Containers which have been opened and used should be disposed as per local rules and regulations of the area. Please refer to the MSDS for further health and safety guidelines.

TECHNICAL 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 : 60
Mix viscosity (cPs)	Theoretical	500-1000
Mix Density g / cc	ASTM D 1475	1.12 g / cc
Coverage per KG of material	-	18 - 20 SFT @ 500-micron thickness
Working time	-	60 - 90 minutes
Gel time	-	6 - 8 Hours
Tack Free time	-	12 - 14 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	40.5 @ 7 Days
Compressive Yield Strength (MPa)	ASTM D695	51.2 @ 7 Days
Compressive Strength (MPa)	ASTM D695	80.5 @ 7 Days (Ultimate)

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