



Tough Guard 12,000 E is a three-part epoxy putty and crack filler based on epoxy resin, hardener, and filler. Simply mix the premeasured Part A, B and C by hand or drill stirring. This impact resistant epoxy putty and crack filler can be applied from feather edge to several inches thick in one application.

ADVANTAGES

- ✓ Easy to apply and clean up.
- ✓ Triple the strength of concrete.
- ✓ Flexible and Resilient.
- ✓ Cures to dense joint-free surface.
- ✓ Good chemical resistance.

AREAS OF APPLICATION

Tough Guard 12000 E is an ideal putty and crack filler for the levelling and repair of concrete floors, Floor Joint Repairs, Levelling rough surfaces prior to the application of epoxy flooring and general crack repairs of cementitious floorings.

SURFACE PREPARATION

All loose particles and oil shall be cleaned off the surface prior to the application. Minor hair line cracks need to be opened to a minimum width of 4mm width and depth and Repaired accordingly. **Tough Guard 12,000 E** can also be used as a crack filler and a wall and floor filling putty as well depending on the site requirement.

APPLICATION

Make sure the container used for the mixing of **Tough Guard 12,000 E** is clean and uncontaminated. Mix Part A and B using a slow speed paddle mixer thoroughly until a homogenous liquid is achieved. Slowly add the powder of Part C on top of the mixed liquid. Since **Tough Guard 12,000 E** is a water-based Epoxy Filling material, Additional Water can be added over the mixed paste to achieve the right desired consistency of the material. The mixed paste can either be poured over the surface of the crack (if applying on the floor) or a viscous mix can be applied using a spatula blade or trowel over the surface of the wall. The filler ratio of the material can also be adjusted to make it either more flowable or a mortar like consistency. It is to be ensured that the ratio of Resin and Hardener is not disturbed. One part Resin is to be mixed with 0.7 parts of hardener.

TECHNICAL DATA

Chemical / Type	3 component Epoxy Part A: Resin Part B: Hardener Part C: Filler
Volume Solids	100%
Pot life @ 20°C	25 Minutes
Color	Natural Grey
Mix Ratio	0.7 Part Resin 1 Part Hardener 20 Parts Filler
Primer	Self-priming
Viscosity	Pourable, 90-100 KU Viscosity can be adjusted by increasing or reducing the water ratio
Compressive Strength	8,000 to 14,000 PSI Depending on filler and water ratio
Tensile strength	2450 PSI (This can also be adjusted by changing filler and water ratio)
Tensile elongation	18%
Cure time	8 Hours @ 20°C
Ultimate cure	4 Days

*Typical results under laboratory conditions

SHELF LIFE

Tough Guard 12,000 E has a shelf life of 6 Months if stored under Dry and Cool Conditions where temperatures over 30°C do not prevail.

PACKAGING

Tough Guard 12,000 E is available in the following packaging.

2.17 KG Part A 100g (Resin – Water Based)
Part B 70g (Hardener – Water Based)
Part C 2 KG (Filler)

21.7 KG Part A 1KG (Resin – Water Based)
Part B 700g (Hardener – Water Based)
Part C 20 KG (Filler)



HEALTH AND SAFETY

Tough Guard 12,000 E is regarded as non-hazardous for transportation. It is a water-based material, Hence nonflammable. 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.