

XCHEM

TECHNICAL DATA SHEET

FORTBAK EPOXY CRUSHER BACKING COMPOUND

DESCRIPTION

Fortbak Epoxy Crusher Backing Compound is a two-component epoxy-based crusher backing resin which is ambient temperature curing and has high impact strength.

KEY PROPERTIES

- Fortbak Epoxy Crusher Backing Compound has low viscosity allowing easy mixing and pourability.
- Fortbak Epoxy Crusher Backing Compound is designed with high impact strength qualities making it ideal for crushers and other heavy equipment.
- Cured material can easily be removed during repairs or maintenance.
- All weather chemical reaction reliability.
- Cured material has good electrical and chemical resistance.
- Rapid curing time which allows for quick maintenance and repairs.

KEY APPLICATIONS

- Fortbak Epoxy Crusher Backing Compound has excellent anti-wear properties for metal surfaces.
- It is ideal for mining equipment such as gyratory jaw crushers, mill liners etc.
- Fortbak Epoxy Crusher Backing Compound works well in filling cavities, securing bolts and sealing bolt hole leaks.
- Fortbak Epoxy Crusher Backing Compound can also be used for backing and wear reduction of cast mill ends and shell-liners.

DIRECTIONS FOR USE

- Old or worn-out crusher backing must first be removed mechanically before new backing can be applied.
- The base metal surface should be sand-blasted or thoroughly wire brushed prior to application.
- Ensure that the surface to be coated is free from dust, dirt, grease and oil.
- Stir each component independently to ensure homogeneity.
- Mix the two components thoroughly to achieve a uniform mixture.
- Pouring immediately into the desired components cavity or surface area. Do not allow the product to stand.
- Spread to the required thickness.
- Allow material to cure before putting the equipment back into service.
- Mixing ratio is:

| | |
|----------|--------------------|
| Resin | 80 parts by weight |
| Hardener | 20 parts by weight |

TECHNICAL DATA

- **Colour** : Resin - clear/white
: Hardener - brown
: Mixed resin - yellowish
- **Viscosity at 25°C** : 10 000mpa.s
- **Density** : 1500kg/m³
- **Pot Life** : Approx. 45min
- **Gel Time** : Approx. 60min
- **Cure Time** : 3 to 4hrs
- **Specific Gravity** : 1.6
- **Coverage** : 0.6m²/kg (1mm thick)
- **Compression Strength**: 150mpa
- **Deflection at Break** : 4mm

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HANDLING AND STORAGE

- Do not scrape unmixed components from the sides and bottom of the mixing tin into the cast, as this will result in soft spots in the backing.
- Do not expose the curing compound to water or any other chemicals.
- Wait for the product to cure fully before using the equipment on which the product was applied.
- If adhesion to metal is not required, first apply a thin coat of wax floor polish. Allow solvents to escape from the wax coating before applying Fortbak Epoxy Crusher Backing Compound.
- Remove excess compound, and clean tools and equipment before compound cures using lacquer thinners or xylol.
- Curing time depends upon temperature - higher temperatures will accelerate hardening whilst lower temperatures retard it.

STORAGE AND STABILITY

- The product has a shelf life of 12 months if stored sealed, under cool and dry conditions in the original packaging.
- In extreme conditions this period may be shortened.
- Once the resin and hardener have been opened, the total contents must be used to avoid moisture contamination.

TOXICITY

Fortbak Epoxy Crusher Backing Compound is non-toxic at ambient temperatures and the cured material is chemically stable.

*The data and recommendations concerning this product are the result of extensive XCHEM laboratory testing and experience. As the use of the product is beyond our control, no warranty is expressed or implied and the customer should satisfy him/her self as to the suitability for this particular application.

SAFETY PRECAUTIONS

- Protective clothing, gloves and goggles should be worn when handling the Fortbak Epoxy Crusher Backing Compound.
- Normal industrial hygiene should be practiced during handling.
- Ensure good ventilation or alternatively wear a protective mask.
- In case of skin contact immediately wash the affected area with warm, soapy water.
- In case of eye contact immediately rinse the affected eye(s) with clean water. **IMMEDIATELY** contact a doctor.
- Keep away from children and animals. In case of ingestion, contact a doctor or health worker immediately.
- Dispose of discarded packaging and unused material according to local regulations.



Tel (012) 661 77 11
Fax (012) 661 77 22