



EpiMax 480

Precision Epoxy Grout

EpiMax 480 Precision Epoxy Grout is a high strength non-shrink epoxy based grouting system offering ease of field use.

EpiMax 480 also provides benefits to specifiers and users with superior mechanical properties. EpiMax 480 may be extended on site with graded aggregate for projects requiring deep pours or application during abnormally hot weather. The use of a high performance epoxy grout like EpiMax 480 will maximise the effective bearing area under the widest variety of applications and conditions. The system demonstrates faster strength development and higher mechanical than cement based grouts.

EpiMax 480 offers far simpler curing and superior dynamic load response than cement based grouts. It is recommended where chemical spillage is a prime consideration.

EpiMax 480 is available in two grades; standard and deep pour. Specify EpiMax 480S where deeper pours and/or higher application temperatures applications are encountered.



Advantages

- Easy mixing - add aggregate if required
- Excellent flow
- Tolerates damp surfaces
- Low exotherm - good flow
- Fast & convenient - good strength gain
- High mechanical strength
- Dynamic load resistant
- Withstands a wide range of chemicals
- Non - shrink - maximises bearing area
- Creep resistant

Typical applications

- Precision grouting of mining equipment
- Support of mobile equipment
- High strength support of rotating machinery
- Structural concrete repairs
- Deep foundation grouting
- Test equipment foundations
- Grouting of high speed turbines
- Structural anchoring of bolts, inserts, rebar
- Transport and crane rail anchoring/grouting

Typical properties

- Shelf life: 2 years
- Solids content: 100%
- Work time: 30 minutes at 25°C
- Full cure: 24 hours at 25°C
- Maximum depth of pour: 50 mm (EpiMax 480)
- Compressive strength: 100 MPa
- Compressive modulus: 4.1 GPa
- Tensile strength: 25 MPa
- Maximum operating temperature: 85 deg C
- Maximum depth of pour: 80 mm (EpiMax 480S)

Foundation preparation

Concrete foundations should be at least 28 days old. Ensure the foundation is clean and free of contamination. Prepare by acid etching/neutralizing/washing, professional grinding or captive blast cleaning as applicable to expose firmly adhered aggregate. Allow to dry if wet. Always confirm preparation adequacy.

Temperature conditioning

Precondition grout components to between 20 and 25 deg C before commencing application.

Avoid high temperatures while grouting in summer. In hot weather, store in relatively cool shaded areas below 30°C.

If grout components are above 30°C, the resulting mix will have a shortened work time. Provide shade from summer sunlight for at least 24 hours before and 48 hours after grouting. In cold weather, store components indoors before use.

If aggregates are used, they also may need to be temperature-conditioned. Hot aggregate will reduce work time and cold aggregate will reduce flow. But cold aggregate can extend work time in hot weather applications. Aggregates should always be washed and kiln dried. Check the recommendations for storage temperatures, temperature conditioning and work time at temperature extremes. Check with EpiMax for aggregate type & use proportions.

Application

Select a slow speed (400 rpm) mechanical mixer and ensure thorough mixing. Add EpiMax 480 Hardener to EpiMax 480 Compound. Mix until a uniform consistency is obtained.

For deep pours, EpiMax 480 may be extended with an appropriate aggregate. Add slowly after Hardener and Compound has been mixed. Mix until fully incorporated. Do not incorporate air into the mix.

Pour the mixed system with care into the leak proof void, from the widest side and avoid air entrapment.

Packaging

EpiMax 480 is available in 10 litre packs (includes Hardener and Compound).

It is pre-packaged in correct proportions for immediate use.

Ordering Information: 10 litre - #9048010

EpiMax 480S is available in 10 litre packs (includes Hardener and Compound).

It is pre-packaged in correct proportions for immediate use.

Ordering Information: 10 litre - #9048012



Safety precautions

Read **Material Safety Data Sheet** before commencing any application. Keep away from children. Avoid contact with skin and avoid breathing vapour. Always provide adequate personal protection (gloves & goggles etc) during use. Always provide adequate ventilation, especially in confined spaces. If poisoning occurs, call Doctor or Poisons Information Centre.

Phone 13 11 26. If swallowed, DO NOT induce vomiting. Give plenty of water or milk. If skin contact occurs, quickly remove contaminated clothing and wash affected areas thoroughly with soap and water.

TDG Code: Hardener - UN 1760, Compound - Not Classified