

Rapid Setting & Curing Free Patch Repair Mortar

Technical Data Sheet

Advanced Geopolymer Based – Contains No Portland Cement

GEOKRETE - PR is a proprietary blend of powders based on advanced Geopolymer technology extremely versatile, cementitious, rapid setting, curing free, semi leveling structural mortar for quick construction and repair needs. It's a single component powder activated by adding just water at site.

If required, GEOKRETE - PR can be extended with aggregates of different sizes (6mm or 12 mm or 20 mm) at a ratio of 1:0.5 by weight depending upon the application needs.







UNIQUE FEATURES & BENEFITS

- No priming & curing required
- Quick setting and High early compressive strength
- Rapid return to service (Less than 2 Hrs after application)
- Forms tenacious bond with host material / old Concrete
- Self bonding (bonds itself and No cold Joints)
- Highly dense micro structure and impervious to water

- Not affected by Sulfates and Chlorides
- Can set in Sub Zero temperature
- Freeze thaw resistant
- Fire resistant Tolerates temperature > 1200°C - Zero flame spread
- Resistant to deicing chemicals
- Eco friendly (Do not contain any cement or resin or VOC)

GENERAL PROPERTIES

WATER PERMEABILITY- Depth of Penetration: 1.6 mm

(As per DIN 1048)

SHRINKAGE

- None

OPEN POROSITY

- Less than 1 %

UNIT WEIGHT

- 2250 kg/m³

COVERAGE - 22 K

- 22 Kg/m² @10 mm thickness

Quicker ...

Stronger ...

PHYSICAL PROPERTIES (at 30°C)

SET TIME

Initial Setting time : 15-Minutes Final Setting time : 30- Minutes

*Set time will be shortened at higher temperature site conditions and will be delayed at lower temperature site conditions

SPLITTING TENSILE STRENGTH: 28 days - 3.4 Mpa BOND STRENGTH TO CONCRETE: 24 hrs - 8.1 MPa

Greener ...

COMPRESSIVE STRENGTH

Duration	Srength	Strength when extended with gravel at a ratio of 1: 0.5 by weight
2 hrs	15 Mpa	18 Mpa
24 hrs	30 Mpa	35 Mpa
7 days	45 MPa	50 MPa
28 days	50 MPa	55 MPa

SURFACE PREPARATION

Surface must be sound, clean and free from loose particles or contamination to ensure proper bonding. Dry clean and stable substrate is required.

MIXING GUIDELINES (at 30°C)

Use about 550 ml of water for 5kg of material. Mix the slurry approx 2 minutes until a homogenous mix of smooth, creamy and trowel able consistency is obtained. If required, extend the mix at this point with aggregates at a ratio of 1:0.5 by weight. Mix the slurry for another 1minute and apply the mix in the repair area. Remember to wash off all the equipment immediately. Upon initial set, a broom finish can be applied and upon final set the material can be saw cut, drilled, sanded and / or polished. Increasing the water content more than specified will affect the final properties of the product.



USES

GEOKRETE-PR is ideal for

- Rapid repair of Bridge Decks / Highways / Airport Runways / Industrial Floors / Parking Structures / Concrete Pavement / Freezer Floors
- Instant concreting needs where time is crucial like in the area of equipment installation / Precast panel installation / emergency construction needs
- Cold weather Concreting Replacement/Repair of concrete pavements in sub zero temperatures with a very minimal down time.
- Construction where water impermeability is of primordial importance

DISCLAIMER: The use of this product is beyond the manufacturer's control and liability is restricted to the replacement of material proven faulty" The manufacturer is not responsible for any loss or damage arising from incorrect usage" Specifications are subjected to change without notice"

