

Technical Data Sheet

GEOKRETE - EX is a proprietary blend of powders based on Geopolymer technology used for low cost structural repair of depth greater than 20mm. Packed with premixed aggregates, requires only addition of water at site. Highly durable than Epoxies as the co-efficient of thermal expansion matches to concrete.

UNIQUE FEATURES & BENEFITS

- Quick setting and High early compressive strength
- No priming & No curing required
- Rapid return to service (Less than 2 Hrs after application)
- Forms tenacious bond with host material
- Non Shrink, 100% Water and Fire Resistant
- Not affected by Sulfates or Chlorides
- Ecofriendly (Do not contain any cement or resin or VOC)

PHYSICAL PROPERTIES:

SET TIME (at 30°C)

Initial Setting time : 10-Minutes
Final Setting time : 20- Minutes

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

COMPRESSIVE STRENGTH (at 30°C)

3Hrs : 20 Mpa
24Hrs : 40 Mpa
72 hrs : 50 Mpa
28 Days : 55 Mpa

*Strengths will be marginally higher at higher temperature site conditions and marginally lower at lower temperature site conditions than the above specified value of 30°C

SPLITTING TENSILE STRENGTH : 28 days - 4 MPa.
BOND STRENGTH TO CONCRETE : 8 Mpa
WATER PERMEABILITY : Depth of Penetration:
1.5 mm (As per DIN 1048)
SHRINKAGE : None
OPEN POROSITY : Less than 1 %
UNIT WEIGHT : 2450 kg/m³
COVERAGE : 50 Kgs/m² at 20 mm
thickness



SURFACE PREPARATION

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

MIXING GUIDELINES (at 30°C)

Use about 780 ml of water for 10 kg of material. Mix the slurry until a homogenous mix of smooth, creamy and trowel able consistency is obtained. Apply the mix in the repair area and remember to wash off all the equipment immediately.

Increasing the water content more than specified will drastically affect the final properties of the product.

Above mixing times are based on using 20°C to 27°C temperature mixing water. During usage of higher temperature water for mixing, the mixing time to be shortened appropriately. The above mixing times are indicative only. Where mixing time is critical a trial mix is recommended.

WORKING TIME

GEOCRETE - EX has an approximate working time of 10 minutes at 30°C

PACKING

30Kg Bag (Contains 3 Nos. x 10KG Small bags)

SAFETY

The use of dust mask, safety goggles and gloves is recommended.

STORAGE LIFE

GEOCRETE-EX has a shelf life of 12 months from the date of manufacturing if stored in unopened original packing, under shade in dry and frost free conditions.

USES

Ideally used for RAPID REPAIR of Highways, Airport Runway, Taxiway Port Infrastructure Bridge Decks Industrial Floors Concrete Structures Freezer Floors

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"

 **Ecomaterials India LLP**

www.ecomaterials.in

8/5, Sreyas Apartments, Race View Colony, 1st Street, Guindy, Chennai, Tamil Nadu - 600032

Tel: +91 44 22441395, Email: mkt@ecomaterials.in, Web: www.ecomaterials.in