



GEOKRETE-CR

Concrete Re-Surfacing Mortar

GEOKRETE -CR

is ideally suited for resurfacing of

- Concrete Roads / Highways
- Industrial floors
- Parking garages
- Bridge Decks
- Airport Runways
- Freezer Floors

GEOKRETE -CR is a proprietary blend of powders based on geopolymer technology used for repair and rehabilitation / re-surfacing of horizontal concrete surfaces. It has been specifically formulated to produce superior bond strength coupled with quick setting and high early strength gain that allows the repaired surfaces to be used or opened to traffic within a short period of time. Due to its non-shrink and superior bonding tendency with host concrete GEOKRETE-CR offers a highly durable solution to the problem of concrete deterioration.

UNIQUE FEATURES & ADVANTAGES

- Fast setting with high early strength
(Accepts traffic as early as 2 hours)
- No priming required
- No curing required
- Non-Shrink
- Forms superior bond with the host material – Highly durable
- Pre-packed, needs only addition of water at site
- Non-toxic formulation and Contains no VOCs
(Volatile Organic Compounds)
- Eco Friendly Material (Does not contain resin / epoxy / cement)

PHYSICAL & MECHANICAL PROPERTIES

SET TIME (at 30°C)

Initial setting time : 15-minutes

Final setting time : 20-minutes

Set times will further shorten at higher temperature site conditions.



COMPRESSIVE STRENGTH (at 30°C)

2 hrs : 15 Mpa

24 hrs : 30 MPa

72 hrs : 40 MPa

28 days : 50 MPa

FLEXURAL STRENGTH : 7 MPa

SHRINKAGE : None

OPEN POROSITY : Less than 1%

UNIT WEIGHT : 2100 kg/m³

SURFACE PREPARATION

Surface must be stable, dry, sound, clean and free from loose particles or contamination to ensure proper bonding. Clean the surface with wire brush followed by compressed air. Edges shall be prepared professionally using concrete cutting tools. Repair deep areas, holes and nonmoving cracks with GEOKRETE PR / TECHNOFIL prior to application of GEOKRETE- CR.

MIXING GUIDELINES (at 30°C) AND APPLICATION

Add about 625-700 ml of water to 5 kg of powder. Mix using a mixer blade rotating @ 500 to 800 RPM. Initially the mixture may appear very dry. But do not add more water as increasing the water content more than specified will drastically affect the final properties of the product. Keep mixing for about 2 minutes. The material will dissolve and form smooth slurry. At this point pour the mix in the repair area. The slurry has to be applied for a minimum thickness of 5 mm or more. Remember to wash off all the equipment immediately.

WORKING TIME (at 30°C): GEOKRETE-CR has an approximate working time of 10 minutes at 30°C Hot Weather Condition: The working time will be shortened which can be marginally increased by using cold water and further extended by retarder supplied by us, if required Cold Weather Condition: The working time will be extended which can be marginally decreased by using hot water and further shortened by accelerator supplied by us, if required

INSTRUCTIONS FOR USE

- Do not add water over recommended dosage.
- Apply only to sound, prepared substrates.
- Mix the entire content of a single packet at one time and DO NOT USE PART VOLUME

SAFETY

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

STORAGE LIFE: Self life of 12 months from the date of manufacturing if stored in unopened original packing, under shade in dry and frost free conditions.

PACKING: Available in 25 kg bags

COVERAGE: 12kgs required for 1sq. mt. of average 5mm thickness