

## Technical Data Sheet

Advanced Geopolymer Based – Contains No Portland Cement or Organic Resins

**GEOKRETE - AG** is a proprietary blend of powder with rapid setting properties used for anchoring/ grouting purposes. The expanding characteristic of GEOKRETE - AG forms a tight grip on both fixture and the surrounding concrete. It is a single component powder that is water activated.

### UNIQUE FEATURES & BENEFITS

- No priming & curing required
- Quick setting and High early compressive strength
- 100% water proof
- Reduces equipment installation lead time significantly
- Expands to form tight grip
- Non shrink, Non metallic, Non corrosive
- Forms tenacious bond with host material
- Eco-friendly (Do not contain any cement or resin)

### PHYSICAL PROPERTIES:

#### SET TIME (at 30°C)

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

#### COMPRESSIVE STRENGTH (at 30°C)

2Hrs : 15 Mpa

24Hrs : 25 MPa

7 Days : 35 Mpa

28 Days : 50 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 - 3.5 MPa.

**FLEXURAL STRENGTH** : 24 hrs - 6 Mpa

**EXPANSION** : 24 hrs : + 0.05%

**SHRINKAGE** : None

**OPEN POROSITY** : Less than 1 %

**UNIT WEIGHT** : 2170 kg/m<sup>3</sup>

**COVERAGE** : 60 Kgs per Cu.ft



Quicker ...

Stronger ...

Greener ...

## SURFACE PREPARATION

The concrete or masonry to receive the anchorage must be sound, free of dirt, oil, grease, and other contaminants and capable of supporting the fixtures.

## MIXING GUIDELINES (at 30°C)

Use about 125-140 ml of water for 1Kg of Powder. For mixing use a mixer blade turning @500 to 800 RPM. Initially the mixture may appear very dry. Keep mixing for about 2 minutes and the binder will slowly dissolve and pourable slurry will be formed. At this point pour the mix in the application area. 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 - AG has an approximate working time of 10minutes at 30°C

### PACKING

25Kg Bag (Contains 5 Nos. x 5KG Sachets or 25 Nos. X 1KG Sachets)

### SAFETY

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

### STORAGE LIFE

GEOCRETE-AG 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

### GEOCRETE-AG is ideally suited for

- Anchoring rails, bolts, ties dowels, reinforcing steel, threaded rod, sign posts, parking meters, street signs, ornamental steel work into concrete or any other hardened material except plastics.
- Setting appliances, machinery, processing equipment and conveyors.
- Interior or exterior applications and freeze-thaw and environments because of near zero connected porosity.

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](http://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](mailto:mkt@ecomaterials.in), Web: [www.ecomaterials.in](http://www.ecomaterials.in)