

(MC15/06/18)

# CEMPROOF CERAMIC

INSULATIVE AND WATERPROOFING COATING FOR TIMBER, FIBER, MASONRY AND METAL APPLICATIONS

PRODUCT DATA SHEET

**CEMKRETE®**

ISO 9001 & 14000 CERTIFIED

## DESCRIPTION

**CEMPROOF CERAMIC** is an emulsion of high grade ceramic polymer and contains the added advantages of ceramic particles which are function as the heat and cold dissipating elements that provides the ability to save on heating and cooling costs. It dries by evaporation to yield a tough, velvety, non-yellowing and watertight surface with high abrasion resistance and Ultraviolet stability. **CEMPROOF CERAMIC** when applied directly to rust will help to prevent further rusting problem.

## USES

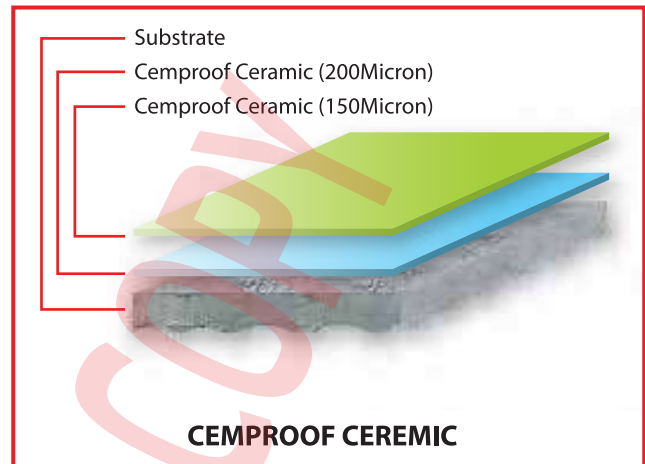
**CEMPROOF CERAMIC** is used to provide a coating to insulate most building materials from solar heat. **CEMPROOF CERAMIC** does not require a primer in most cases due to the unique properties of the material.

## BENEFITS

- Cost Saving and Efficient
- Watertight Membrane & Fungal Resistance
- Maintain an Attractive Appearance
- Non Toxic, Non Flammable
- Built-in rust inhibitor
- Excellent adhesion, no primer required in most cases
- Non-Yellowing & High UV resistance
- Water based, Single pot material
- Quick drying & Highly Flexible
- High Solar Reflectivity & Temperature Reduction
- Corrosion and Abrasion Resistance

## COLOR

White, Cream, Grey



| Technical Data:              |                     |
|------------------------------|---------------------|
| Coating type                 | Ceramic coating     |
| Solid by Volume              | 70%                 |
| Film thickness               | 300 micron(Minimum) |
| Drying time                  | 30 minutes/ 25°C    |
| Re-coating time              | 2 hours             |
| Min. application temperature | 10 °C               |
| Max. application temperature | 35 °C               |
| Flash Point                  | None                |
| Cleaning                     | Water               |
| Packaging                    | 20kg & 200 kg       |

NOTE: Coverage figure given is theoretical. Due to wastage factors, the variety nature of the substrate, and the site application condition, etc., the practical coverage may be reduced.

The information given in this data sheet is to the best of our knowledge true and accurate; but as we have no control over where or how the product is applied, there are no warranties expressed or implied regarding the product's use or performance. Customers are advised to thoroughly test before adapting them to their own use. It is strongly recommended to trial on small area before large scale application.

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## THERMAL PROPERTIES

Solar Reflectance 95%  
Solar Absorbance 7%  
Thermal Emittance 92%  
Transmittance 0% Define as opaque material

## PHYSICAL PROPERTIES

|                             |                      |
|-----------------------------|----------------------|
| Surface Adhesion            | > 15 ksc. ASTM       |
| C-633 Flexibility           | No cracking breakage |
| Elongation                  | ~500% ASTM           |
| D-412 Fungal Resistance     | No fungal growth     |
| Water Transmission          | No water transmit    |
| Vapor Transmission          | 0.1 perms            |
| Resistance                  | ASTM E-96 Chemical   |
| Maximum Service Temperature | No corrosion         |
| Fire Resistance             | 120 °C               |
| ASTM E-84                   | No cracking breakage |
|                             | Flame spread 5       |
|                             | Fuel contribution 0  |
|                             | Smoke density 0      |

## APPLICATION

Surface must be cleaned, dried and free of any oil, grease or dirt by approved method prior to application of **CEMPROOF CERAMIC**. Two coats are recommended for dry film of not less than 300 microns. (0.3 mm.) Allow 2 hours to dry before apply second coat.

**CEMPROOF CERAMIC** can be apply over the damp cool surface. If **CEMPROOF CERAMIC** is not dry within one hour, cease painting immediately. Where the application is used for the collection of drinking water, down pipes should be disconnected until the area has had two or three rinses with rain water.

### Brush or Roller

Pre wet the brushes and rollers to avoid clogging. Apply 2 coats straight from the container. Allow 2 hours drying between.

### Airless Spray

Thin with up to 10% with clean water to aid atomization. Use a tip orifice of 0.5 micrometers or larger. Apply the material in two even coats. Allow 2 hours drying between coats. Do not spray if temperature is or will fall below 10 °C or in high humidity, rain or dew as **CEMPROOF CERAMIC** will not cure properly. If the conditions are hot or windy & if it's still necessary to paint in these conditions, the surface should be cooled using a hose.

## MIXING

Mix thoroughly with a flat stirrer or mechanical mixer before using. **CEMPROOF CERAMIC** dose not normally need to be thinned but if considered necessary, 10 % of clean water may be added to improve workability.

## COVERAGE

|                      |                      |
|----------------------|----------------------|
| Theoretical coverage | 4.0 sq.m. / kg./coat |
| Recommended          | 2 coat               |

## TOXICITY

|                   |                          |
|-------------------|--------------------------|
| Dry film toxicity | Nontoxic                 |
|                   | No Mercury, No lead,     |
|                   | No Cadmium, No Chromium, |
|                   | No Cyanide, No Arsenic   |

## STORAGE

### Shelf life

The products have a shelf life of 12 months if kept in a dry store in its original, unopened packaging.

## ADDITIONAL INFORMATION

Cemkrete manufactures a wide range of those complementary products which include:

- Waterproofing membranes & water stops
- Joint sealants & filler boards
- Cementitious & epoxy grouts
- specialized flooring materials
- fireproof coating and systems
- Concrete admixture
- Repairing material

## HEALTH & SAFETY

This product is highly alkaline, use approved protective clothing, gloves and respirator during application. Provide adequate ventilation. For further information, refer to the product Material Safety Data Sheet available upon request.

## FURTHER INFORMATION

With a wealth of technical and practical experience built up over many years in our pursuit of excellence especially in the protective, flooring and concrete technology, make **CEMKRETE** your partner today. Contact our hotline now.

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