

# Hydraproof Ceramic

**CEMKRETE**

*Insulative and waterproofing coating for masonry, metal, timber, and fiber applications*

*Innovative products for your success*

## Uses

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

## Description

**Hydraproof Ceramic** is an emulsion of high grade Ceramic-Polymer in water it contains the added advantages of ceramic particles which are the heat and cold dissipating elements that give the ability to save on heating and cooling costs.

It dries by evaporation to yield a tough, velvety, non-yellowing, watertight surface with highly abrasion resistance and Ultraviolet stability. **Hydraproof Ceramic** when applied directly to rust will prevent further rusting problem.

## Advantage

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

## Properties:

<b>Colour:</b>	White / Cream / Grey
<b>Coating Type:</b>	Ceramic coating
<b>Packaging:</b>	4L, 20L, 200L
<b>Cleaning:</b>	Water
<b>Flash Point:</b>	None
<b>Solid by Volume:</b>	60%
<b>Film thickness:</b>	300 micron (Minimum)
<b>Drying time:</b>	30 minutes / 25 °C
<b>Re-coating time:</b>	2 hours
<b>Min. application Temperature:</b>	10 °C
<b>Max. Application Temperature:</b>	35 °C

## Thermal Properties

Solar Reflectance	93%
Solar Absorbance	7%
Thermal Emissions	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	ASTM E-96
Chemical Resistance	No corrosion	
Maximum Service Temperature	120 °C	
Fire Resistance	Flame spread	5
ASTM E-84	Fuel contribution	0
	Smoke density	0

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## Application

### Brush or Roller

Pre wet the brushes and rollers to avoid clogging. Apply two coats straight from the container. Allow two hours between conventional spray.

### Airless Spray

Thin with up to 10% clean water to aid atomization. Use a tip orifice of 0.5 micrometers or larger. Apply the material in two even coats. Allow two hours between coats. Do not apply if temperature is or will fall below 10 °C or in high humidity, rain or dew as **Hydraproof Ceramic** will not cure properly. If the conditions are hot or windy, and it is necessary to coat in these conditions the surface should be cooled using water hose. **Hydraproof Ceramic** can be applied over the damp cool surface. If **Hydraproof Ceramic** is not dry within one hour, cease coating immediately. Where the application is used for the collection of drinking water, down pipes should be kept open until the area has had two or three rinses with rain water. Surface must be cleaned, dried and free of any oil, grease or dirt by approved method prior to application of **Hydraproof Ceramic**. Two coats are recommended for dry film of not less than 300 microns. (0.3 mm.) Allow two hours to dry before apply second coat.

## Mixing

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

## Coverage

Theoretical coverage	4.0	sq.m. / Lt. /coat
Recommended	2	coats

## 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 the original, unopened packs.

## Additional Information

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

- Waterproofing membranes & waterstops
- Joint sealants & filler boards
- Cementitious & epoxy grouts
- Specialized flooring materials
- Fireproof coating and systems
- Concrete admixture
- Repairing material

For further information on any of the above, please consult your local Cemkrete office - as below.

**Important Note:** Cemkrete warrants its materials free of manufacturing defects and produced as per standard specifications and sold under the terms and conditions of usages, whilst Cemkrete endeavors to ensure that any advice, recommendation, or information, given through its products literatures are reflects of the R&D in-house lab test and practical sites experience and knowledge based feed backs, however, the products are being used under various conditions and applied beyond its control where or how either directly or indirectly at various locations and places at a different stages that of an intended purposes and uses. Therefore, Cemkrete cannot hold warranty or responsible for resultant consequences, such as damages to the property or assets but the product itself.