



HIND HYDRAPROOF CERAMIC

PRODUCT DATA SHEET

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

DESCRIPTION

Hind 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. **Hind Hydraproof Ceramic** when applied directly to rust will prevent further rusting problem.

USES

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

ADVANTAGES

- Energy Saving
- Cost Saving and Efficient
- Water tight 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

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 high humidity, rain or dew as **Hind 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. **Hind Hydraproof Ceramic** can be applied over the damp cool surface. If **Hind 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 **Hind 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. **Hind 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. Mtr/Kg/Coat
Recommended Coats	2 Coats

PROPERTIES

Color	White / Cream / Grey
Coating Type	Ceramic Coating
Cleaning	Water
Flash Point	None
Solid by Volume	60%
Film Thickness	300 micron (Minimum)
Drying Time	30 minutes / 25°C
Recoating Time	2 hours
Min. Application Temperature	10°C
Max. Application Temperature	35°C

THERMAL PROPERTIES

Solar Reflectance	93%
Solar Absorbance	7%
Thermal Emission	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
Vapour Transmission	0.1 perms (ASTM E-96)
Chemical Resistance	No corrosion
Maximum Service Temperature	120°C
Temperature	No cracking breakage
Fire Resistance (ASTM E-84)	Flame spread 5 Fuel contribution 0 Smoke density 0

SHELF LIFE

Best before 12 months from the date of manufacture. Should be stored in a cool and dry place away from direct sunlight at temperature ranging between 2^o C (Min.) and 35^o C (Max.).

PACKING

1, 4, 20, 200 Kg in HDPE Container.

HANDLING PRECAUTION

Hind Hydraproof Ceramic is non-toxic non-flammable and ingestion is to be avoided. Any splashes to the skin must be washed with water. If contact with eyes occurs, wash well immediately with water and seek medical advice.

Note:

- **Hindcon Chemicals** maintains a team of technically trained professionals to provide full support to your problems in construction, and recommend the correct product to suite your specific requirements. Our authorized applicators can attend your site for application of the products.
- The content of the Technical datasheet are for general information and guideline. The result shown here are generated from our laboratory or from our site experiences.
- Quality of our products are maintained as per ISO9001:2008 recommendations and continuous researches. The behavior can change as per the prevailing conditions at the time of applications.
- Since **HINDCON CHEMICALS LIMITED** has no control over the use to which the users may put the material, it does not claim or warrant that in the user's particular circumstances, the result that the user will obtain from the product will be the same as those described in this communication or that the user will find the information or recommendations complete, accurate or useful. The client must test and ascertain the safety and fitness for the product for use.
- The right to change the properties of the products is reserved with us. The proprietary rights of third parties must be observed. All orders are accepted subject to the terms of sale and delivery. Users must always refer to the most recent issue of the latest Data Sheet for the product concerned, copies of which will be supplied on request.

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