

Nitocote RS

Insulative Coating for Timber, Fiber, Masonry and Metal Applications

Use

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

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

Description

Nitocote RS 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. Nitocote RS when applied directly to rust will prevent further rusting problem.

Properties

Physical Properties :

Colour:	White / Cream / Grey
Coating type ::	Ceramic coating
Packaging:	20 litres, 200 litres
Cleaning:	Water
Flash point:	None
Solid by Volume:	60%
Film thickness:	300 microns (minimum)
Drying time:	30 minutes / 25°C
Re-coating time :	2 hours
Minimum application temperature :	10°C
Maximum application temperature :	35°C
Thermal properties	
Solar Reflectance:	93%
Solar Absorption:	7%
Thermal Emission:	92%
Transmission:	0% Define as opaque Material
Surface Adhesion: (ASTM C-633)	> 15 ksc.
Flexibility:	No cracking breakage
Elongation (ASTM D-412):	~500%
Fungal Resistance:	No fungal growth
Water Transmission:	No water transmit
Vapor Transmission: (ASTM E-96)	0.1 perms
Chemical Resistance:	No corrosion
Maximum Service Temp.:	120°C
Fire Resistance (ASTM E-84):	Flame spread 5 Fuel contribution 0 Smoke density 0

Nitocote RS

Instructions for use

Application

Brush or roller

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

Do not paint if temperature is or will fall below 10°C or in high humidity, rain or dew as Nitocote RS will not cure properly. If the conditions are hot or windy, and it is necessary to paint in these conditions the surface should be cooled using a hose. Nitocote RS can be applied over the damp cool surface.

If Nitocote RS 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.

Surface must be cleaned, dried and free of any oil, grease or dirt by approved method prior to application of Nitocote RS.

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.

Mixing

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

Coverage

Theoretical coverage	4.0 m ² /lt/coat
Recommended	2 coats

Toxicity

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

Shelf life

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

Technical support

Fosroc offers a comprehensive range of high performance, high quality construction products. Fosroc offers on-site technical advice from staff with unrivalled experience in the industry at locations all over the world.



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