



Ceramic based Breathable, Crack-Bridging, UV Resistant, Waterproof, Heat Resistant and Thermal Insulation Coating for Concrete, Cementitious or Metallic Substrates

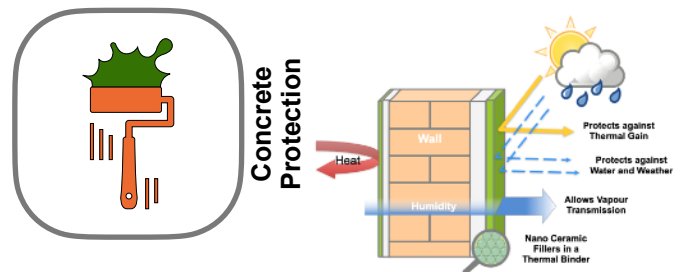
General

SS - ThermoCoat AC is a High Performance Heat Resistant, Thermally Insulating, Elastomeric Coating based on advanced acrylic polymer technology and Hi-Tech Ceramic Fillers. The coating's select mineral fillers, in synergy with the acrylic polymers and ceramics, provide the coating with excellent heat, carbonation, UV and water resistance while maintaining crack-bridging characteristics and breathability. **SS - ThermoCoat AC** contains no solvents and is therefore, eco-friendly. **SS - ThermoCoat AC** is also referred to as an insulating cool coating. SS - ThermoCoat AC is unique as its sp. gravity is about 0.7, making it lighter than water, which gives it its superior insulation properties as opposed to white cool coats. It can be tinted and still maintain its insulating properties.

The coating works by reflecting, refracting and dissipating radiant heat thereby reducing heat transfer through the substrate it is applied on, be it building roofs, walls, ceilings, metal, asphalt, bitumen and wood substrates. **SS - ThermoCoat AC** exhibits excellent waterproofing capabilities, in addition to its Moisture Vapour Tolerance that allow the system to breathe. Post application, **SS - ThermoCoat AC** enhances the Insulation performance of the roofing systems, walls, or coverings made of materials including, but not limited to metal, concrete, brick, cement block, wood, cable or sheet rock.

Product Features

- Eco friendly, water based acrylic, single pack system
- Has class A fire retarding with ZERO flames spread
- Minimizes solar heat gain through substrate
- Provides excellent waterproofing properties
- Breathable, Allows the entrapped moisture to escape
- Lowers roof / wall temperatures
- Reduces cooling costs
- Acts as a natural barrier to heat transfer
- Provides high solar thermal reflectance and thermal emissivity
- Can be used as roof coating providing both thermal insulation and slip resistance
- Can be brush applied / sprayed, easy to handle



Areas of Application

- Thermal Insulation of Concrete / Metal Buildings
- Areas where cooling / heating costs need to be saved by 20% or more
- Thermal Insulation of Residential, Commercial or Energy Efficient Buildings, Industrial Structures, Low Cost Housing
- Cool Roof Installations
- Cool touch surfaces for Industrial Piping
- Footpaths and walked on areas, exposed to the sun
- Corrosion resistant insulation for metallic surfaces

Areas of Application

Specification Keywords	Thermal Insulation Coating, Cool Coating, Cool Roofs, Ceramic Coating, Insulation Coatings, Metallic Roof Coating, Waterproof Coating
Delivered As	White Paste, Colours on Request
Storage Instructions	In Original Packing. In a cool dry place.
Shelf Life	12 Months from date of Manufacture.
Post Use	Use Complete Packs, Dispose packaging according to local regulations.
Packing Size	20 Litres



Hazards and Safety



Technical Data

Coverage	0.5 l/m ² in 2 Coats, Depending on surfaces for ~ 300 µm DFT
Recoatability	8 to 16 Hours, Depending on Ambient Temperatures
Sp. Gravity	0.70 ± 0.05, At Room Temperature
Solid Contents	80 ± 2 % by volume
Adhesion	> 1.5 N/mm ²
Elongation	> 60%
Solar Reflectance Index	>105
Emissivity	> 0.9
Solar Direct Reflectance	> 0.8
H₂O Diffusion	< 4m, Equivalent Air Layer Thickness (S _d)
VOC	Conforms to Table 1: 40 CFR 59 D, Ch. I, 7/1/12 Edition - Concrete Protective Coatings
Salt Spray Test	Passes
Primer	Use SS - ConGuard Primer @ 75-100 gms / m ² , prior to Coating

Instructions for Use

Always test in a small inconspicuous area with a 24-hour cure time to determine consumption, ease of application and desired results. Surface temperature should be 10 to 30 °C. Follow substrate preparation rules for painting surfaces. The substrate must be clean, dry and free from all loose particles, old paint, dust, oil and other materials having a separating effect. The substrate should be of sound nature and adequate strength (pull off strength > 1.5 N/mm² is most suitable) for maximum protection.

For Cracked surfaces, analyse the cracks, before coating. Repaired surfaces should gain sufficient strength prior to coating. Apply **SS - ThermoCoat AC** after complete curing of concrete or plasters. The coating is compatible with most polymer cement mortar substrates. Surfaces can be moist but not saturated with water. The product should be thoroughly mixed mechanically before Application. **SS - ThermoCoat AC** should be applied by brush or roller or by airless spray method. For enhancing the bond between the substrate and **SS - ThermoCoat AC** we recommend SS - ConGuard Primer to be applied before coating.

A quantity of 500 ml of **SS - ThermoCoat AC** will cover an area of 1 Sqm at roughly 300 micron thickness. The coverage can vary depending on the surface, method of application and wastage. The desired thickness of **SS - ThermoCoat AC** is 600 microns for better insulation properties.

SS - ThermoCoat AC can be coated on Concrete, Asbestos sheets, GI Corrugated Sheets, Clay Tiles, bricks, plaster, metal or any other kind of building materials to reduce the intensity of heat inside the building.

Safety and Precautions

Corresponding safety rules are to be followed. Contact us for other applications of this material system for the protection of your structures. It can cause damage to skin and eyes. Wear protective gloves and goggles and take the usual precautions for handling chemicals while using. If inhaled, move immediately to fresh air. In case of skin or eye contact, flush immediately with water for 15 minutes. Clean up promptly after job is complete. Clean equipment with water and allow to dry in a well-ventilated area. Allow rags etc. to dry in a well-ventilated area out of the reach of children and pets. Local, state and federal regulations should be consulted for proper disposal procedures.