

## SURFACOOOL – 0712 (HEAT INSULATION COATING)

### PRODUCT DESCRIPTION

**SURFACOOOL-0712** is an Environment Friendly, Sustainable, High-Performance Coating using water based Patented Grafted Co-Polymer Technology.

**SURFACOOOL-0712** is a green formulation specifically designed to reduce energy consumption and cost required for cooling residential spaces, public spaces & work places in Summer, by keeping the interiors cooler by at least 10°C.

**SURFACOOOL -0712** offers additional benefits as follows:

- Acts as an effective waterproofing system with no leakage during rainy season.
- Prevents corrosion of metallic roofs in aggressive climatic conditions reducing the cost of maintenance.

### PRODUCT HIGHLIGHTS

- Single Pack System
- Quick drying at Ambient Temperature
- Excellent Heat Insulation Properties- Temperature gradient of 10°C to 14°C in peak Summer.
- Robust Outdoor Stability
- Sustained Resistance to UV Radiation & Corrosion
- Excellent Water Repellency & Impermeability to Water Vapour
- Long lasting Waterproofing Effect
- Anti- Static- Resistance to Algae & Fungi

### GREEN FEATURES

- Zero VOC
- No Odour
- No Fumes
- Non-Toxic- RoHS Compliant
- Energy Saving

### APPLICATION SUBSTRATES

- Concrete
- Metal
- Fibre/ Plastic
- Wood

### SURFACE PREPARATION

All surfaces should be clean, dry and free from contamination. The surface should be assessed and treated in accordance with ISO 8504.

### FILM THICKNESS & SPREADING RATE

Film Thickness	-	45-50 Microns/ Coat
Theoretical Spreading Rate	-	10 m <sup>2</sup> per Kg/Coat



## CURING TIME

Substrate Temperature	-10°C	0°C	10°C	23°C	40°C
Touch Dry (Minutes)	60	50	40	30	15
Dryness for Recoating (Minutes)	60	60	60	30	30
Hard Dry / Complete Cure	24 Hours				

Drying times are generally related to air circulation, temperature, film thickness and number of coats and will be affected correspondingly. The figures given in the table are typical with good ventilation (outdoor exposure or free circulation of air).

## APPLICATION METHODS

Spray - Use Airless Spray or Air Assisted Spray.

Brush - Care must be taken to achieve the specified Dry Film Thickness.

Roller - Care must be taken to apply sufficient material in order to achieve the specified Dry Film Thickness.

## APPLICATION DATA

Mixing Ratio - Single Pack System, Ready to Use

Pot Life - Not Applicable

## APPLICATION GUIDELINES (AIRLESS SPRAY)

Pressure at Nozzle - 15 MPa (150 kg/cm<sup>2</sup>, 2100 psi)

Nozzle Tip - 0.43-0.79 mm (0.017-0.031")

Spray Angle - 40-80°

\*Filter Check to ensure that filters are clean.

## APPLICATION PROCEDURE

- i) Open the lid and stir contents slowly.
- ii) Do not mix Water or Solvent in the coating.
- iii) Open and seal visible cracks with Polymer Sealant
- iv) Apply first coat on well prepared surface uniformly to build DFT of 45 to 50 Microns.
- v) Allow to dry for 30 minutes & ensure surface is tack free.
- vi) Apply second coat to build total DFT of 90 to 100 Microns.



## TEST PARAMETERS

SR. NO.	PERFORMANCE TEST	ASTM STD.	RESULT
1.	Scratch Resistance (3 Kg)	D-7027	No exposure of Metal Substrate Passes the Test
2.	Flexibility Test (Conical Mandrel)	D-522	No film Cracking / Crazing
3.	Pull Off Adhesion	D-4541	5.5 MPa
4.	% Elongation Tensile Strength MPa	D-638	530.5 5.82
5.	Salt Spray Resistance Test 1000 Hrs (At 80 Microns DFT)	BS-117	No Surface Deterioration & Corrosion
6.	Water Vapour Permeability	D-1653-13	9 gms / m <sup>2</sup> / 24 Hrs
7.	Resistance to Fire Spread	E-84	Class (I) A FSI-5 SDI-0
8.	UV Resistance (1000 hrs.)	D-4587-05 UV-b-313 nm <sup>-1</sup>	No Chalking No Colour Change
9.	SRI EMISSIVITY	-	>100 0.93

## PACKING

5/10/20 Kg Plastic Pails

## AVAILABILITY

Available through a network of Distributors / Channel Partners throughout the world for prompt delivery to customers.

## TECHNICAL ASSISTANCE

Complete technical assistance is available and includes fully trained technical service personnel.

## HEALTH AND SAFETY

Prior to start of use of this material, please read the Material Safety Data Sheet (MSDS)

## WARRANTY

GSCPL guarantees that the products are carefully manufactured to ensure the highest quality and are tested strictly in accordance with acceptable standards.



**DISCLAIMER:**

The information in this data sheet is given to the best of our knowledge based on laboratory testing and practical experience. However, as the product can be used under conditions beyond our control, we can only guarantee the quality of the product itself. We also reserve the right to change the given data without notice. Minor product variations may be implemented in order to comply with local requirements.

Issued on 03/02/2021 (February 3, 2021) by Greenovoc Specialty Coatings Pvt. Ltd.

This Data Sheet supersedes those previously issued



Green Coating Technology



VOC Free



No Odour



No Fumes



Environment Friendly

