

ELASTOCOAT SR

TECHNICAL DATA SHEET

SOLAR HEAT REFLECTIVE, WATERPROOF, SINGLE COMPONENT ELASTOMERIC COATING

Description

Elastocoat SR is pure acrylic, elastomeric high build, Eco-friendly, Energy Efficient. Solar Heat Reflective coating for roof and exterior walls that significantly reduce absorbed heat in the building envelope. This coating lessens the urban heat islands effect, which allows cooler buildings. A cooler building means reduced cost of air-conditioning and lower Carbon di-oxide emission. **Elastocoat SR** is designed with high quality titanium di oxide which reflects >85% of Solar Radiation and specialty Nano Ceramic hollow spheres which reduces heat transmission. When it is applied on exterior side walls and roof it reduces energy cost up to 30%. The cured **Elastocoat SR** also acts as high performance waterproof membrane.

Uses

Suitable for all types of :

- Roof slabs(flat and sloped)
- Exterior walls of Residential, Commercial or Industrial Buildings
- RCC/ asbestos/ lime terraced roofs/ clay tiles etc. after suitable surface preparation and repairs
- Sunshades
- Suitable as a heat reflective coating on bituminous membrane.

Advantages

- Water Based, Non - Toxic, Non-flammable and User friendly
- No VOC Content
- High Solar Reflectance, help reducing Air-Conditioning costs
- Protects from Carbonation, acid rains and alkali solutions
- Excellent UV Resistance and Weather Resistance
- Excellent resistance to Dirt pick up
- Single Component with Easy Application
- Can be applied by Brush, Roller or Spray on horizontal & vertical surfaces
- Excellent Bonding with concrete, masonry surfaces, metal, wood, etc.
- Can be tinted to different shades using suitable pigments

Application Instruction

Surface Preparation:

All dust, loose and friable materials and glaze or varnish of tiles must be completely removed by mechanical means. Existing coatings/ membranes have to be inspected, cleaned and mechanically ground to achieve a sound, gripping substrate. In case of bad adhesion to the substrate, existing coatings have to be removed.

In case of application on clay tiles, roughen the surface by grinding and then apply the system.

All uneven surfaces should be properly treated by suitable FCSC's material to get a plain surface.

In case of application on an existing bituminous membrane following procedure has to be followed :

After ensuring that the existing membrane has been cleaned properly, apply the C.S. Primer/ Solvent based or Water based on the surface on which the system is to be applied. Sprinkle a layer of sand on the primed surface immediately and allow it to dry for atleast 12 hours. The surface is now ready to take the **Elastocoat SR** System.

Application:

Elastocoat SR is supplied in a single component pack and is in ready to use form. Stir thoroughly using a conventional paint stirrer prior to application.

As a part of the System please prime the substrate with Primer(Water:Elastocoat SR= 1:2). Within 2-4 hours of priming, apply 1st coat of **Elastocoat SR** by brush or roller. Do not spoil the dry surface while walking on it for application. Place FCSC® Fab over the first coat when it is in tacky Condition.

Apply the 2nd coat of **Elastocoat SR** following the same above procedure at suitable time interval of 6-8 hours between the coats.

Suitable time interval is 6-8 hours after the second coat dries off.

The above mentioned times may vary depending on temperature, humidity and ventilation at site.

Technical Data

Appearance	White
Specific gravity at 27°C	1.3±0.1
Solid Content	>60%
Surface drying time at 27°C	10-12 Hrs
Solar Reflectance Index(SRI), ASTM E903	>85%
Hardness Shore A	>40
Elongation at break at 14 days ASTM D412	>200%
Tensile strength 14 days, ASTM D412	>1.5 N/mm ²
Pull off adhesion at 14 days, ASTM D541	>1.5 N/mm ²
QUV resistance, ASTM G154, 1000 hrs	No crack, no colour change
Fungi resistance, ASTM G21	Passes test
Recommended film thickness(DFT)	100-150 Microns
Crack bridging ability, ASTM C1305	Up to 3 mm width
Volatile organic content(VOC)	< 10 g/l
Permeability to water vapour(IS 2645)	Passes

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Consumption

1.5-2 kg/Sqm/2 coat

Packaging

Elastocoat SR is available in 1kg, 5kg, 10kg and 20kg bucket.

Cleaning

Clean all the equipment with water or cleaning Agent.

Storage and Shelf life

Store under cover, out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment. Shelf life is 24 months..

Safety Precautions

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data..

Disclaimer

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.