

Dr.Fixit Super Sunshield

CERAMIC COATING THERMAL BARRIER

Description

Dr.Fixit Super Sunshield has been developed & designed for excellent heat reflectance. It has a highly technical unique in the form of a liquid water-based, elastomeric polymer modified resin incorporated with special type of ceramic borosilicate glass microspheres. After applying or coating on external surface, it will dry to form a film as an elastomeric paint protecting as a thermal barrier for building (roof and wall, etc.) from solar heat.

Area of Application

- Metal sheet roof

Rate of uses

* Theoretical consumption without allowance for loss.

Rate of uses				
	Litre/m ²			m ² / Pail (18.925 Litre)
	Standard	At least	At most	
1 Coat	0.27	0.2	0.35	70
2 Coats	0.27	0.2	0.35	70
Total 2 Coats	0.54	0.4	0.7	35

Thickness

Thickness			
	Standard	At Least	At most
1 Coat	150	120	175
2 Coats	150	120	175
Total 2 Coats	300	240	350

Method of Application

Surface Preparation for metal sheet roof, ceramic sloping roof

- Surface must be clean & sound, free from all dust, oil, grease, rust, loose paint, and other contaminants. Remove all loose material with high pressure cleaning or stiff broom

Application

- Apply 2 coats of **Dr. Fixit Super Sunshield** with brush (directly from the container, without thinning, over the primed surface. **For spray** (Airless Spray) be mixed with water to 10%
- To ensure homogeneity, stir well before use
- **Dr. Fixit Super Sunshield** can be applied on a prepared cementitious, metal or timber surface with an interval of 2 hrs. but not more than 24 hrs
- Spread rate 0.54 lt. /m² / 2 coats with dry thickness 300 microns
- * **Theoretical consumption without allowance for loss.***

Precautions & Limitations

- Application temperature should be between 5°C – 35°C and relative humidity below 85%. The substrate temperature must be at least 5°C above dew point.
- Substrate temperature should be between 0°C – 60°C
- **Super Sunshield** is not recommended for use in areas of water immersion condition

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Technical Information

Properties	Method /Standard Test	Result
1.Solid content	-	60%
2.Density	-	~ 1.0
3.Viscosity @ 25 °C, Brookfield Viscometer	-	20,000 cPs
4.Solar Reflectance	JIS R3106	95.1%
5.Solar Absorptance	JIS R3106	4.9%
6.Thermal Emittance	JIS R3106	90%
7.Solar Reflectance Index	ASTM E-1980-01	114.4
8.Equivalent Thermal Conductivity	-	0.0004 - 0.0006 W/m ° C
9.Elongation at Break	ASTM D412	>500%
10.Flammability	UL.94	Not Flammable
11.Adhesion	ASTM D4541	>2.0 N/mm ² (about 422 psi / 2.9 N/mm ²)
12.Tensile Strength	ASTM D412	>1.0 N/mm ²
13.Chemical Resistance	ASTM D1308	No Blister
14.Dry Film Thickness	-	300 - 350 Microns
15.Application Rate	-	0.50 - 0.75 litre/sq.m./2coat
16.Drying Time	-	1 hrs. (depend on site condition)
17.VOCs Contents	ISO 11890-2 : 2013	<0.0110

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Packing

- 5 U.S. Gallons (18.925 ltr./ 19 kg.)

Storage

- 12 month storage in sealed container and room temperature.

Health & Safety Precautions

- Non Flammable
- Avoid contact with skin and eyes
- Wear protective gloves and eye protection when applied

Disclaimer

The product information and the recommendations relating to the application and end-use of Dr.Fixit products, are based on Dr.Fixit's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Dr.Fixit's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Dr.Fixit reserves the right to change the properties of its products without notice, so the company does not assume liability of any legal from this product information.



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