

# COOL-R REFLECTIVE COATING

## TECHNICAL DATA SHEET

COOL-R REFLECTIVE COATING is one component, solvent free resin for covering sloped roofs (min. 8% slope) with elastic, rain resistant, UV resistant, highly reflective and cooling coating.

COOL-R REFLECTIVE COATING prevents overheating of the roof and lowers temperature beneath the roof, using proven technology of COOL-R liquid membranes.

## TYPICAL SURFACE

- Galvanized steel sheet
- Sandwich panel

## APPLICATION

**COOL-R REFLECTIVE COATING** is applied in one layer. Applied manually (roller, brush) or by airless machine (in case of application by spraying, notice that works cannot be made on windy day). During the application the dewpoint and the temperature should be controlled. Surface must be dry. Application temperature of air from +15 to +40°C, surface temperature from +10 to +70°C. Air humidity during the application: max. 85%. Do not apply the coating on frozen or frosted surfaces. Do not apply if rain is expected before full cure.

## SURFACE PREPARATION

### METAL SURFACE

It is necessary to clear out moss, lichens, sharp edges and clean with active foam and water. The wet surface must be dried before application. If there are many rust blooms on the metal, remove them to at least *SA1 class* according to ISO 8501-1:2001. In order to improve the adhesion, each surface should be roughened and apply **COOL-R Primer Rust** (approx. 0,13 l/sqm) before applying the **COOL-R REFLECTIVE COATING**.

## CONSUMPTION

**COOL-R REFLECTIVE COATING**: approx. 0,6 - 0,8 kg/sqm.

## WORKS AFTER APPLICATION

Tools, clothes and dirt clean with water before products dries. In case the product is dried use petrol or xylene. We recommend to perform test before cleaning. The application machine should be cleaned in accordance with the manufacturer guidelines. The surface can be repaired with the same product. Refer to Safety Data Sheet.

## LIMITATION OF USE

Product used on sensitive surfaces e.g. copper and its alloys, can cause discoloration of the substrate. The coating is to be used to cover roofs excluded from any traffic movements. It is allowed to enter the surface in case of making maintenance or necessary repairs.

Cool-R Reflective coating is rain resistant but not designed to provide waterproofing membrane, nor to be used in thick layers for cracks or penetrations sealing.

## TECHNICAL DATA

PARAMETER	NORM	COOL-R Reflective Coating
Consistency	MB/02/1/2015	light paste
Colour		white
Viscosity 20 RPM spindle 6 [mPas]	EN ISO 3219	8 000 – 10 000
Density [g/ml]	EN ISO 2811-1:2012	1,44 - 1,48
Solids [%]	EN ISO 3251	60 - 65
Curing time [min] 23°C,50% humidity	ASTM D 1640	120 - 150
Curing pace [mm / 24h]	ASTM D 1640	0.8 – 1.2
Service temperature after full cure [°C]		-15 - +70
<b>Adhesion [N/m]:</b>	ASTM D903	
- coated sheet		900 / good
- galvanized steel sheet		1600 / good
- galvanized steel sheet with COOL-R PRIMER RUST		1200 / good
<b>Mechanical properties after 7 days:</b>	ISO 527-1 2012	
- modulus @ 100%, 23°C,50% humidity [mPas]		0.8 – 1.2
- tensile strength at brake, 23°C ,50% humidity [mPas]		1.4 – 2.0
- elongation at break, 23°C, 50% humidity [%]		>500
<b>Change in mechanical properties after 7 days in the UV chamber at 50°C</b>	ISO 527-1 2012	
- modulus @ 100%, 23°C,50% humidity [mPa]		1.2 – 1.6
- tensile strength at brake, 23°C ,50% humidity [mPa]		1.4 – 2.0
- elongation at break, 23°C, 50% humidity [%]		>300

## TRANSPORTATION AND STORAGE

### PACKAGING

**COOL-R REFLECTIVE COATING** is delivered in 15 kg pail.

Other type of packaging could be deliver at the individual request.

### STORAGE

Store up to 24 months in a dry place at temperature +5°C to +30°C, protect from overheating. **Note:** Transport is not subject to ADR.

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