



PRODUCT	Dermacolor Cool Roof
MISSION	High-Reflectance white paint in water emulsion for bituminous membranes
CHARACTERISTICS	<p>Dermacolor Cool Roof is a high-reflectance synthetic resin-based white paint in water emulsion, which thanks to a special formulation containing glass micro-spheres, is used to protect bitumen-polymer waterproofing membranes against UV radiation, significantly lowering the surface temperature (by up to 40°C with respect to black membranes). This attenuates the urban heat island effect and reduces damage to materials, giving a considerable energy saving due to reduced use of the air conditioning system of the building.</p> <p>The solar reflectance index (SRI) is the best way to assess materials that may be used for “cool roofs”; this value is calculated with a complex formula, that measures the thermal properties of a material; the higher the SRI, the greater a material reflects sunlight. The values range from 0 (for standard black with reflectance of 0.05 and emissivity of 0.90) to 100 (for standard white with reflectance of 0.80 and emissivity of 0.90). Materials with high SRI are the best solution for “cool roofs”. The bitumen of membranes which has a negative SRI (-1) would, for example, not be good choice for a cool roof; a white slated membrane (with SRI of approximately 28) would be more efficient, but the best solution is the use of high-reflectance materials with SRI above 100.</p> <p>Dermacolor Cool Roof, applied on the bitumen-polymer membrane Dermabit, has an initial SRI of 103.5 (Test Report no. 313875 issued by Giordano Institute on 05/03/2014).</p>
APPEARENCE	Medium viscosity white liquid

CHARACTERISTICS OF THE LIQUID PRODUCT

CHARACTERISTICS	VALUE	TOLERANCE	U.M.
Specific weight	1,10	± 0,05	Kg/dm ³
Dry residue	64	± 1	%
Residue at 450° C	43	± 1	%
Viscosity at 23° C (with Brookfield viscosimeter rotor n. 4, speed 5)	15000		

APPLICATION INSTRUCTIONS

TOOLS	THINNING	TYPE OF THINNER	TOOL CLEANING
Brush	Ready to use		Water
Roller	Ready to use		Water
Spray	Ready to use		water





LAYING SURFACE	Bituminous materials should always be allowed to oxidize for at least 30 days before applying Dermacolor Cool Roof . Remove all traces of dirt and dust from the bituminous membrane with a hydro pressure washer; the roofing must also have a pitch of 3% so as to ensure water run-off and prevent pooling. Allow the deck to dry thoroughly before applying the paint coat.	
CONSUMPTION	Approx. 200 gr/sqm per coating for sandblasted membranes; 300 gr/sqm for slated membranes. Apply at least two crossed coatings to ensure a uniform finish and prevent early flaking. For best results, apply three coatings.	
APPLICATION INSTRUCTIONS	Environment and deck application temperature: MIN 10°C - Max 40°C. Ensure that the product dries before rain, fog or frost. Decks should be sloped sufficiently to prevent pooling that might damage the film coating.	
DRYING AT 23° C AND 50 % U.R.	On surface: 1 h To touch: 1,5 – 2 h Interval between coatings: 5 – 6 h The times shown are intended for standard laboratory conditions. Drying times are strongly affected by weather conditions; high temperatures and direct sunlight reduce the drying times; areas in shadow, low temperatures and high humidity increase the drying times. In winter the product should be laid in the middle of the day when it is warmer. Ensure that the previous layer has dried properly before applying the next layer.	
PACKAGING INSTRUCTIONS	COLOURS AVAILABLE White	PACKAGING 16 Kg
STORAGE INSTRUCTIONS	STORAGE TEMPERATURE MIN 3° C – MAX 40° C	STABILITY IN THE ORIGINAL PACKAGING 12 months
SAFETY STANDARDS	Please read the safety data sheet carefully before using this product.	