

General Description

A decorative and reflective white acrylic elastomeric roof coating for metal and asphalt composition roofs. 7512 also has excellent adhesion to polyurethane foam and protects it from ultra violet degradation. Its low temperature flexibility provides good crack resistance, lengthening the life of the roof.

Uses

Cool Roof is bright and has a high resistance to dirt pick-up for long term reflectivity resulting in lower air conditioning costs. It provides an energy saving top coating for metal or smooth surface asphalt roofing on commercial, industrial buildings, farm and utility buildings, mobile homes and recreational vehicles. Also used on masonry, concrete or stucco walls.

Limitations

This is a waterbase product which must be applied on warm, clear sunny days with no forecast of rain for at least 24 hours. Do not apply at temperatures below 10⁰ C or 50⁰ F. Ensure that asphalt roofing is fully cured before topcoating – the surface must not be oily to the touch and water should not bead up. Recommend three coat for ponding areas. Ponding areas may discolour.

Physical Properties

Colour	-	White (colours available to special order)
Density	-	1.33 kg per litre or 11.1 lb. per U.S. gallon
Viscosity	-	90 K.U.
Solids	-	58%
Dry to Touch	-	2 to 4 hours @ 20 ⁰ C (70 ⁰ F) and 50% rel. humidity
Dry to Hard	-	24 hours
Film Thickness	-	@ 8 ltr/10 sq. meters (2 U.S.gal/100ft ²) = 11.5 mils. (0.0115")
Dirt Pick Up Resistance	-	Excellent
Tensile Strength	-	170 psi
Elongation At Break	-	330 %

Preparatory Work

The roof surface must be thoroughly clean and free of dust, rust, grease, moss, dirt, etc. Any existing coating on the roof must be "tight". Remove rust with wire brush, sandpaper or steel wool.

Before applying Cool Roof, carefully inspect the entire area. Repair all cracks, holes, raised seams and potential trouble areas (around roof vents, chimneys, metal seams) by embedding glasscloth membrane or preferably polyester roof membrane between two heavy coats of 7161 Elastoproof Elastic Emulsion and brush out at least 5cm (2") all around the membrane. Allow the Elastoproof to set up – approximately 6 hours at 20⁰ C (70⁰ F) – before overcoating with Cool Roof.

If the roof is showing signs of wear or "alligatoring" over a large portion of the roof a coating of 7161 Elastoproof Elastic Emulsion is recommended applied at 12 litre/ 10sq. metre (3 U.S. gal/100 ft²). Cool Roof should be applied over the 7161 as soon as it is dry and firm, usually within 3 – 6 days in warm weather. If an asphalt plastic cement such as #7509 is used for repairs and flashing, a 30-day weathering period is recommended before coating with Cool Roof.

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Over smooth surface modified bitumen and uncoated metal roofs an undercoat of Elastoproof at the application rate of 12 ltr/10 sq. metre (3 U.S. gallon/100 ft²) is recommended. New, uncoated modified bitumen roofs must have been weathered at least for one month before coating with Cool Roof.

Precautions

KEEP OUT OF REACH OF CHILDREN. Keep from freezing.

Application

Apply Cool Roof on a day when the temperature is at least 10⁰ C (50⁰ F) and rising. Wet Cool Roof can be damaged if exposed to rain or if temperature drops below 10⁰ (50⁰ F) and stays there. The roof should be warm to the touch.

Do not thin Cool Roof. Remove any skin on top of coating and stir thoroughly. A mist spray of water is recommended immediately before applying the first coat to provide a damp surface particularly at air temperature over 24⁰ C (75⁰ F). Apply Cool Roof in two coats using roller, soft brush or heavy duty spray equipment. If possible, apply a second coat at right angles to direction of first coat application.

Coverage

Recommended rate of an application in two coats is 5 ltr. per 10 sq. meter (80 sq.ft.) per coat. Allow first coat to dry to touch before applying second coat. In areas where ponded water is likely to occur, add 1 more coats at 5 ltr. per 10 sq. meters (80 sq. ft.) gal.

Clean – Up

Before Cool Roof dries, clean tools, spillage, etc. with warm soapy water. Dry coating may be softened with lacquer thinner and scraped clean. Observe safety precautions required for solvent flammability and toxicity.

Warranty

Insulmastic Building Products warrants that products that it manufactures conform to their chemical and physical descriptions and are within bound fit for the use stated on their Product Data Sheets when used in compliance with the written instructions. Since no control is exercised over the use of the products, no warranty, expressed or implied is made to the effects of such use. Insulmastic obligation under this warranty shall be limited to refunding the purchase price of that portion of our product proven to be defective.