

TECHNICAL DATA SHEET
HEAT REFLECTIVE COMPOUND
ROOF

Scope of application:

HELIO-ROOF Heat Reflective Compound is a product from the HELIO - REFLEKSJA reflective product group.

By reflecting radiation of all kinds, including infrared and UV radiation, the compound prevents the roof surface from overheating, while the product's flexible structure gives it sealing qualities allows for their further use.

The ease of application allows for the insulation of hard-to-reach places and the extensive temperature range of -50°C +150°C gives the product multiple applications in almost all weather conditions.

Developed for industrial and construction applications.

Prevents frost penetration and stops the roof space from overheating.

Acoustic insulation – reduces the noise level during rain.

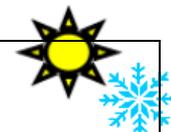
Resistant to weather conditions and UV stable.

Reflects heat radiation and infrared radiation above 85 %.

Temperature resistance: between -50°C and 150°C.

Product characteristics:

Properties	Technical parameters
Colour (coat)	White (matt) – Base for colours
Type	Heat reflective compound
Application	Construction, industry, outdoor use
Temperature range	-50°C +150°C
Level of reflection	85%
Dry matter content	80%
Resistance to wet scrubbing	Class 1 (PN-EN 13300:2002)
Paint density 20°C	0.5 kg/litre
Coat thickness	1 – 1.5 mm
Coverage at 1 mm	1 m ² –1 L
Weight	0.5 kg – 1 L
Application temperature	Maximum 5-40°C Optimal 20-30°C
Relative humidity during application	40%



HELIO – HEAT REFLECTIVE COMPOUND

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Method of application

Surface preparation:

- **Building felt**

Remove any cracks, dust, and residue of old coats from the surface, and fill in any gaps. Use a low-pressure paint sprayer (Graco or other) to apply the heat reflective compound.

- **Metal and non-ferrous metal substrates/stainless steel**

The compound can be applied directly onto clean and degreased substrates.

Before applying the compound, make sure that the surface is clean and free of dirt.

The compound should be applied immediately after cleaning and preparing the substrate.

- **Plastic substrates**

For smooth (low-adhesive) surfaces, primer (Putz-Grunt) can be used to increase adhesion.

Painting:

Before painting, mix the compound slowly and thoroughly and paint the walls several times to obtain the final thickness of the coating of min. 1-1.5 mm.

Standard coat thicknesses should not exceed 500-550 µm of the wet later. When the first coat is dry, i.e. after 4-12 hours, you can apply another layer. The drying of the paint coat depends on the application temperature – the recommended application temperature is 20-30°C. This temperature range is conducive to achieving an excellent quality of the paint coat. The primary colour is white, which can then be tinted with tinting pastes to any light hues.

Before painting, check the weather conditions. Any precipitation before the compound dries will damage the structure and even wash it away from the roof surface.

Technical parameters of the equipment used to apply the HEAT REFLECTIVE COMPOUND:

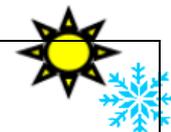
Sprayer – a spray gun with a container connected to a compressor (2 bar) (Preparation of the job mix with the appropriate viscosity) (MAX 5% WATER)

- **Airless spraying**

Recommended pump turndown ratio	33:1 or higher
Capacity, min.	5.7 litre/min.
Nozzles:	
For hard-to-reach places	0.017” (0.43 mm)
Flat surfaces	0.019- 0.023” 0.48 - 0.58 mm
Pressure	from 2 to 4 bar

- **Trowel (without diluting)**

**Roller (Preparation of the job mix with the appropriate viscosity)
(MAX 5% WATER)**



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Application temperature:

Paint can be applied in the temperature range of 5-45°C. However, the recommended application temperature range is 15-30°C, with relative humidity of 40%, as these parameters contribute to achieving excellent parameters of the heat reflective coat. Exceeding the maximum recommended temperature of the surface being painted results in accelerated evaporation of water and creation of microcracks which reduce the ultimate effectiveness of the product.

Cleaning of tools:

Wash the sprayer with water in accordance with the manufacturer’s recommendations.

Protective measures:

During painting, observe the general OHS principles and prevent the presence of children inside the rooms which are being painted. Use a face mask (compliant with EN 166).

Wear protective clothing.

Product storage:

Store heat reflective paint at a temperature between +5 and +35°C.

Cover the unused compound with plastic film and close the container using the original lid.

The product’s shelf life is 24 months.

IMPORTANT INSTRUCTIONS

Do not allow paint to freeze. The product is unsuitable for use if it was subjected to minus temperatures.

Packaging:

20L


Environmental protection

	Freezing effect reduction from 45%		Level of reflection 85-90% Savings in energy consumption 30%
	Easy to apply		Very high resistance to external factors
	Prevention of condensation		Temperature range -50°C 150°C Change in temperature 5-6°C
	Reduces the noise level during rain		Ability to achieve any colour (Base for colours)

HEAT REFLECTIVE PRODUCTS - HELIO

HELIO - INDUSTRY – GRAY -50°C + 250°C

HELIO - EVERYWHERE -50°C + 150°C

HELIO - HOUSE -10°C + 60°C

HELIO - ROOF

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