



# technical data sheet.



# coolroof.

Heatproof with self-cleaning technology  
Cools room without electricity



lifetime of minimum  
**15 years**



soundproof  
**STC 29**



burned at  $\pm 900^{\circ}\text{C}$ ,  
and cools after 15 seconds.  
**SRI 114.48**



nano ceramic  
technology  
from Japan



saves energy.  
**environment  
friendly.**

リフレクト  
**reflecto.**



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www.reflecto.co.id



0811 847 339

# coolroof.

## description.

**coolroof** reduces room temperature by repelling heat from the sunlight and therefore reduces AC usage and cuts down electric costs. coolroof also features an additional soundproof system that tones down sounds of rain and prevents fungi and rust from appearing on your metal roof for minimum of 15 years.\*

## recommended for.

Roof material surfaces such as tin, metal, clay, cement, ceramic, spandex, exposed exterior wall, galvalum, asbestos sheets, UPVC and many more.

## features & benefits.

- Highest Solar Reflectance Index 114.48 certified by TUV German
- Easy application
- Limitless media of application
- Anti-rust
- Dries quickly
- Mold, fungal, and moss proof
- Paint doesn't fade or turn yellow
- Won't crack, peel, or form bubbles

## packaging.

1 kg, 4kg, 20 kg

## technical information.

Solar Reflection Index	114.48 TUV SUD
Elongation	200%
Density 1 ltr	1.28 - 1.32 kg
Color of coating	White. External appearance of coating surface is matte, smooth, and homogenous

Flexural resilience of film	1.2 mm
Adhesion of coating	Mark 1
Drying period	0.5 hour
Hardness of coating until degree 3 at 20°C in 7 days conventional unit	0.4
Covering power of dried film	120 g/m
Rinsability of film	0.3 g/m
Water absorption at capillary suction ( ETAG method in 1 hour )	0.039 g/m <sup>2</sup>
Thermal conductivity	0.0011 W/m°C
Relative elongation at fracture after accelerated ageing 10 years	8.4%.
Linear extension 65% Tensile strength after application	2.0 MPa -
Resistance of coating to static impact of water at 20°C in 24 hours	No changes
Resistance of coating to impact of temperature +100°C in 1.5 hours	No yellowing, crack, peeling and bubbles

## soundproof.

Soundproof level	STC 22	STC 29
Thickness	250 micron	1500 micron
Temperature reduction	27°C	27°C

## warranty.

Available Warranty : 6 year for existing roof, and 10 years for new roof

## consumption.

1 kg: 3 m<sup>2</sup>



### **application procedure.**

Thorough surface preparation is vital. For the best results, we recommend mechanical preparation techniques. For example, mechanical scarifying, grit-blasting, sand blasting.

Clean surface using a high pressure washer, if possible. Remove oil, grease and wax contaminants.

Cement laitance, loose particles, mould release agents, and cured membranes must be removed. Fill surface irregularities with the necessary product.

For metal roofs, rust must be removed prior to application. If such conditions occur, please consult Reflecto for special treatments.

#### **Application:**

Apply material with spray, roller or brush at least 3 coats of 0.1 kg/m<sup>2</sup> per coat, or a total of 0.3kg/m<sup>2</sup> is required. Leave 40-60 minutes between coats.

Brush / Roller / Spray: Recommended to use

Thinner: Recommended to use

Cleaner / Cleaning Solvent: Thinner

### **cleaning.**

Clean tools and equipment with water before paint dries.

### **shelf life.**

Can be kept for a maximum of 6 months in the original unopened pails in dry conditions with temperatures between 5-30°C. Once a pail has been opened, use it as soon as possible.

### **storage and handling.**

Product must be stored in accordance with national regulations. Storage conditions are to keep the containers in a dry, cool, well ventilated space and away from source of heat and ignition. Containers must be kept tightly closed. Handle with care, stir well before use.

### **safety precautions.**

Keep away from heat, spark and open flames. Avoid vapour on skin and eyes. Keep the container closed and stored in a cool, ventilated area when not in use. Proper ventilation and protective measures must be provided during mixing, application and drying, to keep vapour concentration within safe limits and to protect against toxic hazards. Necessary safety equipment must be used and ventilation requirements carefully observed, especially in confined and enclosed space, such as tank interior and building.