

# COOLDRY – REFLECTIVE

## Reflective roof painting

Product code	COOLD	Updated	April 2015
TDS code	TDS CD CoolDry EN	Issued by	NM
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### DESCRIPTION

CoolDry is a high-performance elastomeric, environment friendly and water-soluble coating based on 100 % acrylic binder and high-tech solar heat reflecting components. It is extremely durable and efficiently prevents heat-up of roof and building by solar heat. CoolDry is:

- reflecting up to 90 % of solar heat, reducing air conditioning cost by up to 50%
- highly flexible and tough
- able to cover hair-line cracks • resistant to ponding water

### SCOPE

Suitable for interior and exterior surfaces. CoolDry can be applied over a variety of substrates i.e. brick, concrete, sand cement plaster, wood, properly primed metals (steel, galvanised, aluminium), exterior walls, concrete roofs or metal sheet cladding of warehouse or porta-cabin made of plywood etc.

### COMPOSITION

Pure Acrylic emulsion with high-tech heat reflective components

### FINISH

Matt

### COLOUR

White, grey, sandstone

### DRYING TIME

Touch dry within 1 hour at 200 µm. Overcoating interval after approx. 16 hours checked at 25°C and relative humidity not more than 75 %. Do not use this product if the relative humidity exceeds 95 % or if the foundation temperature is within 3°C of the dew point. Avoid application in high outside or surface temperatures since the

material dries quickly under such conditions, which makes it difficult to apply evenly.

### SPECIFIC GRAVITY

0,83 ± 0,05 kg/l

### % VOLUME SOLIDS

58 ± 2%

### SCRUB RESISTANCE

2636 scrub passes (Abrasion)

### ELASTICITY

40 to 50% stretchable with 2 mm thickness film

### SPREAD RATE

One liter lasts for approximately 1,5 m<sup>2</sup> (2 coats of 200 µm each)

### THINNER

Should be applied without thinning. For easier application add maximum 5% water depending on surface condition.

### CLEAN UP

A detergent solution can be used for machine cleaning.

### FLASH POINT

Not applicable (Water based product)

### PACK SIZE

2.5 liters / 2,1 kg, 5 liters / 4,2 kg und 10 liters / 8,3 kg

### LAYER THICKNESS

For reliable function, durability and stability ensure a minimum layer thickness of 400 µm at every point.

## APPLICATION

**Brush/Roller:** apply two coats smoothly, avoiding runs and sags

**Airless Spray:** Tip size: 0.021" to 0.027" or 0,5 – 0,7 mm  
// Tip pressure: 1600 – 1900 psi or 110 – 130 bar + 5 % water. Recommended thickness: 400 µm for an optimal heat reflexion.

## SURFACE PREPARATION CONCRETE, PLASTER

The substrate must be clean, free from dust or grease, dry, solid stable and sustainable. Unstable surfaces have to be checked for stability, adhesion and suitability. Before applications create test surfaces and observe over a period of time.

Remove cement slurry with wire brush or sweep blast. Fungus affected areas must be treated and dried before painting. Application of a suitable primer is recommended depending on the solidness and cleanliness of the surface.

**Timber** The surface must be clean, dry and free from any particles.

**Wood** Wood can be pretreated with a grounding/primer.

**Steel or other metals** Old but intact paint surface can be sanded. If there is any corrosion the surface must be cleaned mechanically or sand blasted. Apply rust-proof primer or other suitable primer for metal surfaces.

**Bitumen roofing felt** In case of low bitumen roofing felt quality a prime coat with TarStopper is needed. To avoid bleed-through use a suitable primer like TarStopper. In any case create test surfaces and observe over a period of time.

## SPECIAL NOTE

As CoolDry is an elastomeric coating, a dent may be caused by the pressure of the probe, whilst checking Dry Film Thickness and so give a low reading. In such case, place a plastic spacer (above 150µ) on top of the surface and subtract the spacer thickness from any following readings. **CoolDry dries very fast, so the can should be kept closed at all times during the application.**

## STORAGE

Store in cool, dry places and avoid direct sunlight.

## DISPOSAL

To be disposed as normal dispersion paint. If you are not certain, please consult local authority. **Do not empty into drains, sewers or other watercourses.**

## SHELF LIFE

Minimum 24 months at 20 °C and closed container, when the container is open, process within 3 months.

## SAFETY PRECAUTIONS

Please make sure to use the product only in properly ventilated areas. Do not inhale fume or spray. Avoid contact with skin and eyes. Wear appropriate protective equipment such as overalls, goggles, dust mask and gloves. Use barrier cream for hands.

## FIRST AID

**EYES** In case of accidental splashes rinse eyes with warm water immediately and obtain medical advice.

**SKIN** Wash skin thoroughly with water and soap or approved industrial cleaner. **DO NOT USE DISSOLVER OR THINNERS.**

**INGESTION** In case of accidental ingestion, **DO NOT INDUCE VOMITING.** Get medical attention immediately.

## DISCLAIMER

The information on this data sheet may not be complete and is supplied as general information only. The user is responsible to make sure that the product is suitable for the purpose which he wants to use it for. Since we do not have control over the handling of the product, the standard of surface preparation of the foundation or other terms influencing the usage of this product, we are not responsible for its performance and can not be liable for any kind of occurrences by the usage of this product, unless it is specifically approved in writing by us. The information in this data sheet may be updated or changed by us from time to time, without notice, in consideration of our experience and continuous product development.