



DURA COOL COAT

High heat resistant, polymer based cool coating for building exteriors

Primary applications

DURA COOL COAT is designed for use as a thermal insulation coating on roof slabs and walls of buildings. It can also be used on the interior walls and the roof of freezer rooms and cold storage facilities and building terrace etc

Application Areas include:

- Concrete
- Asbestos sheet
- External and internal walls
- Cold storage facilities
- Steam pipes and fittings
- Wood, tiles, PU foams and asphalt shingles.

Features & Benefits

- Ready to apply
- Minimum surface preparation needed
- Single component - Brush or roller applied directly on the substrate
- Light weight yet effective
- Excellent adhesion to most building substrates
- Non conductive property saves air conditioning energy cost
- Durable - High UV resistance
- Environment friendly

Description

DURA COOL COAT is a water-based white coloured emulsion comprising of polymers and specially designed hollow "microspheres", less than 100 microns in diameter with non conductive properties.

These microspheres collectively acts as thermal insulation blanket covering the structure effectively reflecting solar radiation back into the atmosphere. This results in impressive temperature reduction behind the substrate by a minimum of 15°C.

Technical support

The company provides a technical advisory service supported by a team of specialists in the field.

Technical Properties

Appearance and colour	White coloured, pourable consistency
Surface drying time	15 min - 20 min at 30°C
Over coating time	2 - 3 hours
Service temperature	-30°C to +90°C
Thermal conductivity	
DURA COOL COAT	0.1 W/ m °C
Normal Concrete	1.28 W/m °C
Note:	High values indicate higher rate of transmission of heat
Temperature reduction	15°C behind the coated substrate

Application instructions

Preparation

All the surfaces which are to receive DURA COOL COAT coating, must be free from oil, grease, wax, dirt or any other form of foreign matter which might affect adhesion. Spalled and deeply disintegrated concrete should be removed to sound concrete and repaired with Condura Repairs system.

Metal surface must be thoroughly abraded to ensure proper mechanical key.

Priming

Priming is not required on metallic and non porous surfaces. On the highly porous concrete surfaces, apply a polymer modified slurry coat using a clean roller/brush and allow the surface to dry for atleast 2-3 hours.

Application

Once the sealer coat has dried, the DURA COOL COAT system shall be applied using a brush/roller or by a suitable spray equipment. Allow the surface to dry for atleast 2-3 hours before applying the second coat.

Cleaning

DURA COOL COAT coating should be removed from tools and equipment immediately after use with clean water. Hardened material can only be removed mechanically.

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Packaging

DURA COOL COAT is supplied in 20 Litre containers.

Coverage

This depends on the roughness & porosity of the substrate. The approximate coverage will be 3.5 to 4.0 m²/coat /L on concrete surfaces.

A minimum of 2 coats are recommended for effective performance. Allowances should be made for any possible wastages when estimating.

Storage

Shelf life

DURA COOL COAT system has a shelf life of 12 months in unopened packs, if kept in a cool dry store.

Health and Safety instructions

DURA COOL COAT system is non-toxic but alkaline in nature. Gloves and goggles should be worn while handling. Any splashes on the skin or eyes should be washed off with clean water. In the event of prolonged irritation, medical advice should be sought. DURA COOL COAT is non- flammable.



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