

# ANTICORR 280 II MuCis

Elastomeric Acrylic Polymer Based Solar Reflective and Insulating Coating



ANTICORR 280 II MuCis is a water-based white coloured emulsion comprising of acrylic polymers and specially designed hollow “microspheres”, less than 100 microns in diameter with non-conductive properties.

These microspheres collectively act 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 min. of 10°C This system also has certain waterproofing properties and is able to bridge hairline cracks caused by thermal movements.

## Uses

ANTICORR 280 II MuCis 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. Application areas include:

- Concrete or metal roofs
- Asbestos sheet and other metal surfaces
- External and internal walls
- Cold storage facilities
- Steam pipes and fittings
- Wood, tiles, PU foams and asphalt shingles

## Benefits

- Minimum surface preparation needed
- Single Component- Brush or roller applied directly on the substrate
- Light weight yet effective
- Excellent adhesion to most building substrates
- Excellent flexibility at both high and low temperatures
- Non-conductive property saves air conditioning energy cost
- Resistance to water penetration
- Flexible- High elongation characteristics
- Good resistance to atmospheric pollution
- Durable- High UV resistance
- Breathable- Allows water vapour to escape

## Technical Support

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

## Properties

<b>Appearance</b>	White, Paste Consistency
<b>Specific Gravity</b>	1.0-1.3 gm/cc
<b>Surface Drying Time</b>	30 mins at 30°C
<b>Over Coating Time</b>	3-4 hrs
<b>Tensile Strength at Break (ASTM D 412)</b>	1-1.5 N/mm <sup>2</sup>
<b>Elongation at Break (ASTM D 412)</b>	>50%
<b>Q-UV Accelerated Weathering (3000 hrs)</b>	No evidence of cracking, deterioration & loss of flexibility
<b>Service Temperature</b>	-30°C to +90°C
<b>Thermal Conductivity, w/m°C</b>	
<b>Anticorr 280 II MuCis</b>	0.1
<b>Normal Concrete</b>	1.28
<b>Steel</b>	16.0
<b>SRI Value (ASTM E-903)</b>	90%

**Note:** High values indicate higher rate of transmission of heat.

## Instructions for Use

### Preparation

All the surfaces which are to receive ANTICORR 280 II MuCis 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 Maxtreat system.

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

### Mixing

Add 20% clean water (i.e. 4 litres of clean water to the 20 litre container) and mix thoroughly using a slow speed drill fitted with a paddle.

### Priming

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

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## Application

Once the sealer coat has dried, the ANTICORR 280 II MuCis 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

ANTICORR 280 II MuCis coating should be removed from tools and equipment immediately after use with clean water. Hardened material can only be removed mechanically.

## Limitation

ANTICORR 280 II MuCis system has a limited resistance to water permeability. To provide effective protection to the building, when used on concrete surfaces, this system should be used in conjunction with Thermax's Maxshield/Bentonite panel range of waterproofing systems. Thermax shall be consulted before recommending or using this system.

## Health & Safety Instructions

ANTICORR 280 II MuCis 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. This system is non-flammable.

## Storage

### Shelf life

ANTICORR 280 MuCis system has a shelf life of 6 months in unopened packs, if kept in a cool dry store.

## Packing

ANTICORR 280 MuCis system is supplied in 20 lit packs. This depends on the roughness & porosity of the substrate. The approximate coverage is as follows-

### Coverage

4-5 square meter/per coat/per lit (Without Dilution)  
DFT would be approx 120-130 micron per coat.

Though diluted, for workability purpose, extra yield in material per pack shall not be used for extended coverage.

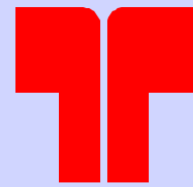
A minimum of 2 coats are recommended for effective performance. Allowances should be made for any possible wastage when estimating.

## Other Segments:

- Concrete Admixtures • Surface Treatments • Grouts & Anchors • Repair & Rehabilitation
- Protective Coatings • Industrial Flooring • Waterproofing • Sealants • Adhesives

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