

## MAK ENVIROCOOL™

HEAT INSULATION PLUS  
WATERPROOF COATING



### Description

Mak Envirocool is a nano insulation technology infused micro fiber reinforce waterproofing coating system. It is a single component liquid applied flexible waterproof & ultra violet resistance liquid membrane suitable for all types of expose roof, slab, terrace, sheds etc. It helps in reduction of energy usages by less heat transfer into buildings thus keeps the interiors cool. The coating serves the dual purpose of thermal reduction & with additional waterproofing protection. This multipurpose product serves as waterproofing coating system with thermal reduction property which results in extended roofs/terrace/Sheds life.

### Key Features & Benefits

- ◆ High solar reflectance index (SRI) which results in high degree cooling effects.
- ◆ UV & IR resistance, reduces heat conductivity.
- ◆ High resistance to chloride penetration, thus highly suitable for saline environment.
- ◆ Provides crack bridging property for cracks up to 2mm.
- ◆ Non slip and suitable for light foot traffic.
- ◆ Algae and fungal resistance.
- ◆ Energy saving – Low heat transfer into building.
- ◆ Non-toxic water base system- Eco friendly.
- ◆ Weather proof coating with excellent UV resistance.

### Areas of Application

- ◆ Terrace water and heat proofing
- ◆ Asbestos sheet and other metal surfaces.
- ◆ Internal and External Walls
- ◆ Plastic tank heat proofing
- ◆ Wood, PU Foams and Asphalt shingles.

### Storage Conditions/Shelf life

Best before 12 months if stored properly in undamaged and unopened original sealed packaging in dry and cool conditions.

### Consumptions

2 sq m per litre per coat.

\*Coverage may vary depending upon texture and porosity of the surface.

### Packaging

1, 5, 10 & 20 Kgs

## Method of Application

### Surface Preparation

Substrate should be clean & dry, homogeneous, free from oil and grease, dust and loose or friable particles, free from paint, cement laitance, old coatings and any other contaminants. All new cement sand renderings, concrete surfaces should be allowed to age for minimum of 28 days before coating. Ensure that the roof slope is a minimum of 1 in 100 to enable water runoff.

In case of old terrace, the substrate must be checked. Damaged or hollow portions, sharp edges, etc. must be cut and repaired with surface cracks must be filled with (Mak Plast & Mak Crete) in caof wider cracks.

Bitumen based waterproofing treatments must be completely removed by mechanical scarification or by any other effective mechanical means.

### Surface Preparation

- ◆ Mak Prime Cryl is single component product available in ready to use form.
- ◆ Apply one coat of Mak Prime Cryl 6 to 8 sq m/l. Allow it to dry 2 to 3 hours.
- ◆ Apply the first coat of Mak Enviro Cool at the rate of 2 sq. m per l and do not spoil the dry surface while walking on it for application.
- ◆ Time interval between coats to be 4 to 6 hours.
- ◆ Apply 2nd coat of the product perpendicular to the 1st coat with same application rate.
- ◆ Allow coated surface to air cure fully for 3 days.

\* The above mention times may vary depending on temperature, humidity and ventilation at site.

## Technical Characteristics

### Properties

### Specifications

### Results

Nature		Single Component Liquid
Solid Content		57
Elongation %	ASTM D 412	100
Dry film thickness(DFT)		0.5 mm
Tensile Strength N/mm <sup>2</sup>	ASTM D 412	1.4
Pull of Adhesion N/mm <sup>2</sup>	ASTM D 4541	1
Accelerated weathering (2000 hrs UV exposure)	ASTM D 4587	Passes
Algae & fungal resistance		Excellent
Solar Reflectance Index	ASTM E 1980	108
Crack Bridging Index	ASNZ - 4548	2mm Passes

### Precautions & Limitations

- ◆ All corners, gaps, joints, protrusions & outlets shall be coated with extra coat.
- ◆ Do not apply during rains.
- ◆ Substrate MUST be in a saturated surface dry condition for application of primer.
- ◆ To achieve the full proof waterproofing, all parapet walls should be covered with Mak Elastocryl EMW.
- ◆ If the surface has excess moisture then there is possibility of blister formation in case of all liquid applied membrane coatings.
- ◆ In case of area in excess of 200 sq m suitable reinforcing fiber mesh should be used between the first & second coat of Mak Envirocool.

### Health & Safety

- ◆ Skin Contact: Wash skin with soap & water. Remove contaminated clothes.
- ◆ On eye contact: Immediately splash eyes with plenty of water. Consult Physician if irritation persists.
- ◆ Ingestion: It is based on Water Based Coating system, however, seek medical help.

### Disclaimer

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

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