MM 6130K

MONOLITHIC MEMBRANE FOR SEAMLESS WATERPROOFING

DESCRIPTION

MM 6125 is a monolithic waterproofing and roofing membrane with thickness of which cannot be achieved by other acrylic or polyurethane based coating materials. Its total thickness of approximately 6mm has provided advantages in re-roofing and re-waterproofing to all old concrete roofs. It is typically applied on vertical and horizontal surfaces such as roof decks, parking decks, reflecting pools, plazas, mechanical sub-floors, foundation walls and slabs, tunnels, planters, soft-scape and landscaping areas. **MM 6130K** has been used widely in green or garden roofs lately due to the popular concept of adopting environmental friendliness.

USES

- **MM 6130K** is not intended to be used as an exposed or trafficable membrane. All exposed roofing in nature shall be provided with minimum two coats of UV-resistant coating such as TARFCOTE (a water-based acrylic rubber coating). General oil-based coating is not suitable as the solvent content will react with the bituminous felt protection. For car park decks or other roof decks subjected to traffic bearing, a structural durable screed or concrete deck shall be laid as the final protection.
- If heat insulating medium is required to the roof decks, a layer of extruded polystyrene with minimum density of 35 kg/m^3 should be laid. In cases where the extra thickness is not catered for, three (3) coats of YNC 11 heat insulation coating is recommended.
- **MM 6130K** shall be applied by approved applicator who has at least five years of experience in the waterproofing field and must be approved by m/s Chemind Industries Sdn. Bhd. Do not install **MM 6130K** over lightweight structural concrete without prior written approval from Chemind Industries Sdn. Bhd.
- Lightweight insulating concrete is not an acceptable substrate. Thus, **MM 6130K** cannot be laid over any polystyrene boards.
- The application of **MM 6130K** shall be applied above the temperature of at least 15°C. All applicators shall consult CHEMIND when constraints arise.

PHYSICAL PROPERTIES

Property	Requirement	Test Method
Elongation	Min. 1000%	ASTM D638
Water Vapor Transmission test	< 0.5 g/h m²	ASTM E96:2005 Procedure B
Water Vapor Permeability	0.02 Perm	ASTM E96 Procedure E
Toxicity	No heavy metal content	SIRIM Ecolabel Standard #19
Flash Point	240°C	ASTM D92
Shelf Life	10 years (In sealed containers)	
Specific Gravity	1.25	

TYPE

WATER PROOFING

ADVANTAGES

MONOLITHIC & SEAMLESS · HIGH ELONGATION · HIGH TENSILE · ECO FRIENDLY

COVERAGE (PER COAT)

4 m²/kg

COATINGS

2 coats (min)

COMPONENT

1 PART

MM 6125
MONOLITHIC MEMBRANE FOR SEAMLESS WATERPROOFING

COMPOSITION AND MATERIALS

MM 6130K is a hot-applied rubberized asphalt (specially formulated from refined asphalt combined with rubberized high grade bitumen, synthetic rubber and inert clay filler). It is formulated with up to 30% post-consumer recycled contents and environmentally friendly products.

INSTALLATION

Surface Preparation

All concrete surfaces must be clean, dry, free of voids, flakes, projections, loose materials, laitance, dust, oil, unapproved curing compounds, grease or other contaminants. The concrete surface to receive **MM 6130K** shall be fully cured for 28 days and having compressive strength of minimum 30 MPa. However, in certain circumstances, application of **MM 6130K** can proceed after 14 days of concrete but having compressive strength of 30 MPa.

Priming

A surface conditioner or bituminous primer should be sprayed or roller applied to the concrete surface at a rate of about 10 to 12 m^2 per litre. The surface conditioner can either be water or oil-based depending on the dampness of substrate surface. If the surface is damp, water-based material is used and vice versa. Allow surface conditioner to dry thoroughly before membrane is to be applied. Other substrates such as wood and metal do not need to be primed.

PRECAUTIONS

Use in well ventilated area. In areas with limited ventilation or enclosed space, wear a mask or approved respirator and follow NIOSH rules and regulations. Avoid skin and eye contact. User must read the container label and material safety data sheet (MSDS) for health and safety precautions prior to use.

AVAILABILITY AND COSTS

MM 6130K is available through Chemind Industries Sdn. Bhd. Sales representatives nationwide. **MM 6130K** is competitively priced. Contact your local approved applicators, representatives or Chemind.

Application

The **MM 6130K** cakes shall be placed into a double-jacketed oil bath, air jacketed melter or a conventional metal container to cook for about 10 to 15 minutes until it melts. Most of the melters are specifically designed for application of hot-applied, rubberized asphalt materials and capable of maintaining the membrane temperature between 170°C to 205°C. Construction joints, cold and control joints as well as all cracks greater than 1.5mm shall be treated with a 2mm coat of **MM 6130K** . All flushing and detail work should be completed prior to the application of the membrane. **MM 6130K** may be squeegee applied on a horizontal surface and hand-trowelled or roller applied on vertical surfaces. The first application of **MM 6130K** shall be about 1.5mm thick.

For the fabric reinforced assembly, **MM 6130K** is initially applied to the substrate at a minimum thickness of 1.5mm. The fabric reinforcing is embedded into the membrane while it is still warm and tacky. A second application of **MM 6130K** at a minimum thickness of 2mm, fully encapsulates the fabric reinforcing within the membrane.

GUARANTEES

Contact CHEMIND for specific warranty information.

MAINTENANCE

None required. Damaged **MM 6130K** membrane is easily repaired by removal of the damaged material and apply with new **MM 6130K** material.

PACKAGING, WEIGHT AND COVERAGE

MM 6130K is packaged by wrapping a layer of polythene sheet as 'cakes' and placed in a metal drum. Each cake of membrane weighs about 20 to 25 kg. Every drum contains about 8 to 10 cakes of membrane and weighs about 230 kg. no coverage?

Legal Notes:
'Statements made in this bulletin are for the assistance of our customers. They are based on our experience and judgment but must not be regarded as amounting to a legal warranty or as involving any liability on our part. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of this product must test the product's suitability for the intended application and purpose. CHEMIND reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. Users may always refer to the most recent issue of our Product Data Sheet for the products concerned, copies of which will be supplied upon request.'

SCOPE OF REGISTRATION AND STANDARDS

Manufacture of Waterproofing materials. Compliance with ASTM technical standards and AS 3740 - 2004 Australia Standard. SIRIM certification is available for selected products upon request, subject to applicable testing and certification requirements.

Made In Malaysia

CHEMIND

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SIRIM

ASTM INTERNATIONAL Standards Worldwide

CHEMIND AUSTRALIAN TECHNOLOGY

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