CHEMFLEX-R100

HEAVY DUTY MICRO-REINFORCED SYNTHETIC RUBBER MEMBRANE

DESCRIPTION

CHEMFLEX-R100 is a specially formulated water-based liquid rubber membrane with integral linear synthetic micro-reinforcement. **CHEMFLEX-R100** has been specifically designed to eliminate blistering and wrinkling which may occur in exposed or ponded situations. It has added application advantage as it does not require the use of polypropylene, polyester or chopped strand glass fibre reinforcing fabric.

CHEMFLEX-R100 provides a fully bonded homogeneous membrane barrier with no laps, joints or over-flashings. It is not affected by U.V. or temperature extremes and will not become brittle with age. The **CHEMFLEX-R100** membrane system complies with ASTM and BS "Waterproofing of wet areas, R.C Roofs, Water Retaining Structures in Buildings".

USES

CHEMFLEX-R100 is ideally suited for use in fully expose roofing, sub-structures, balconies, podium decks, landscape areas, ponds, box gutters, planter boxes, sill flashings, plant room floors. It provides an excellent pedestrian or vehicular trafficable membrane when coated with CHEMIND TARFCOTE surface finish.

CHEMFLEX-R100 provides an excellent moisture barrier under tiles or other rigid surfacing to shower trays, bathroom floors and walls, laundries, kitchens or patios. Most premium quality water-resistant grade ceramic tile adhesives; suitable for application to an impermeable surface, will be compatible with **CHEMFLEX-R100.**

ADVANTAGES

Multi Purpose	→	Economical.
Long Life	→	Permanently Flexible.
High Strength	→	Hard Wearing.
No Blistering of Coating.		
Contains No Toxic or Hazardous Substances.		
U.V. Resistant.		
Anti Root		

APPLICATION

Apply the **CHEMFLEX-R100** liquid membrane coating by brush, roller or squeegee in multiple coats, to achieve a minimum film thickness of 1.5 to 1.8 mm.

Application will be in 2 to 3 coats, depending on the porosity and texture of the substrate. **CHEMFLEX-R100** products usage averages 0.4 to 0.5 kg per m^2 depending on surface texture and the dry film build.

SURFACE PREPARATION

Ensure all surfaces are clean and free from dust and oil. Fill any gaps, expansion joints, etc. with a compatible low modulus PU sealant. Surfaces should then receive a coat of CHEMIND PRIMER W at 8-10m^2 per litre.

Two or more coats of **CHEMFLEX-R100** liquid membrane should then be applied to all internal corners, sills, hobs, outlets, penetrations, cracks, etc. and each coat allowed to dry fully.

All critical areas such as structural cracks, movement joints, penetrations, outlets for wastes could be additionally sealed with CHEMIND Reinforcing Fabric embedded fully between two heavy wet-on-wet coats of **CHEMFLEX-R100** before the application of the membrane system proceeds.

NOTE: Mortar fillets to internal corners are not necessary unless instructed by Consultants.

TYPE
WATER PROOFING

ADVANTAGES
UV RESISTANT | HIGH ELONGATION | ANTI ROOT | NON TOXIC | ANTI BLISTER

COVERAGE (PER COAT)
0.5 kg/m^2

COATINGS
2 coats (min)

COMPONENT
1 PART

CHEMFLEX-R100

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TECHNICAL AND PHYSICAL PROPERTIES

Colour	**White, Grey or Light Blue.**
Composition	**Reinforced Polymerised Monomers**
Viscosity	**14000 cps @ 25°C**
Specific Gravity	**1.35**
Solids Content	**> 60% by Weight**
Tensile Strength (ASTM D 412:16)	**1.9MPa @ 200% Elongation at Break**
Elongation at Break (ASTM D412:13)	**> 950%**
Water Vapour Transmission (ASTM E96)	**0.68 g/h.m^2**
Adhesion Pulled-Off Strength (ASTM D7234)	**396 psi**
Chemical Immersion	**Passed (Water, Bleach)**
Accelerated Weathering (ASTM G154:16)	**Passed**
Moving Joint Test (CSIRO)	**Passed**
Shore A Hardness (ASTM D2240)	**86**
Weather Resistance	**No cracking and no peeling**
Trafficability	**Foot Traffic: 8 Hours** **Vehicular Traffic: 24 Hours**
Curing Time	**24 Hours**

SURFACING

Where a trafficable coloured finish is required, apply a final coat of TARFCOTE at the rate of 3m2 per litre. Where concrete, exposed aggregate or mortar bed and pavers are to be installed, a slip-sheet of 200 micron polyethylene should be used.

CLEAN UP

Uncured **CHEMFLEX-R100** may be removed with water. Removal of products may be assisted with a general purpose solvent.

STORAGE AND SHELF-LIFE

A shell-life of up to twelve (12) months can be expected if stored out of direct sunlight whenever possible.

PACKAGING

CHEMFLEX-R100 membrane is available in 25 kg/pail and 250 kg/drum.

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

REF: PDS10310725