



# KISCOTE EM

## Electric Isolation and Waterproof Membrane

### DESCRIPTION

KISCOTE EM is a synthetic membrane made from Butyl Rubber and designed for waterproofing and protection against static electrical current. It is the perfect solution to be installed between concrete-metal and other construction structures where electric isolation is required.

Its self-adhering application makes it extremely simple and safe to work with -there is no need for use of flames. The membrane is robust against possible physical damage and yet flexible against vibration during its service life.

### RECOMMENDED USES

- Platform doors at mass rapid transit (subway) stations
- Bridges
- Electrical sub-stations, Electrical power stations, and similar structures
- Transformer rooms
- Chemical plants
- Areas containing electrical conduits
- As an insulation for metal element such as in used in movement joints

### ADVANTAGES

- Easy and safe to install
- Excellent and rapid adhesion to substrate and protection screed
- High waterproofing property
- Excellent flexibility which serves to protect concrete which it is applied onto
- Provides an effective insulation against accidental electrical stray current, in both dry and wet underlying substrate

### PACKAGING

KISCOTE EM is manufactured in the following dimension;

2.5mm (thick) x 1.0 metre (wide) x 10.0 metre (long)

### APPLICATION GUIDELINES

#### i) Surface Preparation

- Surface must be sound, clean and free of irregularities, loose particles, voids, loose materials, oil, grease, curing compounds, sealers and any foreign matters.
- The remains of separator should be removed.
- Metal plates and rigid plastics should be sanded and dusted.
- Aluminum foils and metals must be pretreated.

REV. TDS-EM-V2  
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## ii) Application

- Apply 1 layer of **KisCote EM Prime** on to the substrate and allow it to dry to a tacky surface in about 20-40 minutes.
- Apply the primer uniformly of 1 litre to 5-7 m<sup>2</sup>.
- Peel back the release paper of **KisCote EM** and apply the membrane onto the primed surface with the side showing the butyl materials.
- Press the membrane fully using a hard roller and ensure a full bonding is achieved. Special care must be given to area with difficult details.
- Overlap of the membrane shall be not less than 100mm, making use of the pre-design lapping width without fleeceback. Fleece are to be removed at the end laps for the same purpose.
- Lay a topping concrete, screed or plaster now to provide a protection layer. This should be carried out as soon as possible after the installation of KisCote EM to prevent possible damages from other trades.

Design solutions and application methods are illustrated in the technical manual published by KENSETSU INTERNATIONAL APPLICATION MANUAL. Waterproofing systems employing KISCOTE TPO membranes should be laid by installers authorized by KENSETSU INTERNATIONAL.

## STORAGE

KISCOTE EM should be stored in sealed original packing at room temperature up to 12 months from date of manufacturing.

## HEALTH & SAFETY

Refer to SDS for further information.

## TECHNICAL PROPERTIES

KISCOTE EM			
Electrical Resistivity	ASTM D257	Ω.cm	5.75 x 10 <sup>14</sup>
Adhesion to substrate	ASTM D4541	N/mm <sup>2</sup>	Failure outside adhesion between substrate and membrane
Peel adhesion to concrete	D903	N/mm <sup>2</sup>	Failure outside adhesion between substrate and membrane
Isolation Test on site (dry)	250V DC	Ω	≥ 200 Mega
Isolation Test on site (wet)	250 V DC	Ω	≥ 200 Mega
Joint strength			
* Tensile strength	12317-2	N/cm	Compliant (specimen fails outside bond area)
* Peeling	12316-2	N/cm	≥ 58

Notes: (\*) Not tested at higher speeds.

### IMPORTANT NOTES

Any information and/ or specification contained herein is to the best of the company knowledge, true and accurate, it is always recommended that trial to be carried out to confirm suitability of use for all products, as no warranty is given or implied in connection with any recommendations and/or suggestions made by the company representatives, agents and/or distributors.

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