



PRODUCT DESCRIPTION:

ELECTROGARD® PREFAB EIM is a high performance advanced heavy duty cold applied membrane with hybrid elastomeric polymer technology. It combines unique polymer modified bitumen compound and synthetic film of high-density polyethylene. **ELECTROGARD® PREFAB EIM** has proven performance and integral electric insulation for platform and similar application. Touch Voltage Membrane (EIM) is an effective insulation installed at train platforms to safeguard pedestrians from possible voltage transmission caused by touch voltage generation. Membrane also forms effective barrier water and water vapour under requirement of BS 8102.

ELECTROGARD® PREFAB EIM is specially designed as platform touch voltage protection membrane system (PTVPMS). It is installed at mass rapid transit (MRT) platforms to safeguard passengers from possible electrical shocks caused by touch and step voltages. **ELECTROGARD® PREFAB EIM** laid on the railway station platforms with autogenous bonding of the overlaps at seams, that guarantees the protection of passengers against electrical shocks.

BENEFITS:

- Cross-laminated film — provides dimensional stability, high tear strength and puncture resistance.
- Excellent Electrical resistance properties, hence protects important assets of mass rapid transit projects with advanced safety to the passengers.
- Flexible- retains flexibility to accommodate structural and ground movements.
- Being factory controlled production, uniform thickness is maintained.

APPLICATION GUIDELINES:

APPLICATION

- The concrete surface should be dry with moisture content below 4% and thoroughly cleaned to remove dust, grease, oil, foreign substances etc., using appropriate tools & methods.
- Honeycombed surface and potholes if any, should be repaired with **FLOORTOP EP** with appropriate primer.

PRIMING

- It is recommended to prime the dry concrete surface with primer **MULTIPRIME-WB (Water Borne Bitumen Primer)** @4 to 6 m²/Kg., and should be allowed to dry prior to installation of membrane.

INSTALLATION

ELECTROGARD® PREFAB EIM should to stick to primed surface by removing release film from the membrane bottom and pressing it with suitable roller. Allow at least 100mm of overlap between the membranes.

TECHNICAL DATA:

Properties	Values
Thickness	1.5±0.1 mm
Softening Point of Compound	>100°C
Tensile Strength (Membrane), ASTM D412	≥2.50 N/mm ²
Tensile Strength (Film), ASTM D638	≥38 N/mm ²
Elongation at Break, (Membrane), ASTM D412	≥ 280 %
Puncture Resistance	≥480 N
Tear Resistance (Membrane)	15-18 N/mm
Tear Resistance (Film)	≥42 N/mm
Flexibility at Low Temperature, ASTM D1970	≤ -12 °C
Bond Strength (to Primed Concrete)	≥1.8 N/mm
Bond Strength (to Self) – Lap Adhesion	≥2 N/mm
Water Vapor Transmission	≤0.30 g/m ² /day
Dielectric Strength (In air, 25 °C, Cl. N° 12.1.1), ASTM D149-09	9.4 kV/mm
Volume Resistivity (500V dc, 60 s, Cl. N° 12.2), ASTM D257-14	6.0 x 10 ¹⁴ Ohm.cm

PRODUCTS FOR SPECIFIC REQUIREMENT:

1. **MULTIPRIME -WB (Water Borne Bitumen Primer):** Water based primer for concrete
2. **FLOORTOP EP:** Epoxy based repair mortar for concrete floor/wall

PACKING:

Pack Size:

1m x 20m roll (20 m²)

Average net weight 40kg

STORAGE

This product is non-hazardous and non-flammable and therefore can be disposed of in any regular disposal area. The membrane should be stored in a dry place and protected from all source of heat and extreme temperatures.



Avoid puncturing or damaging of **ELECTROGARD® PREFAB EIM** in any sharp or protruding edges . Store upright in dry conditions below 35°C.

SAFETY DATA:

- IRRITATING TO EYES, RESPIRATORY SYSTEMS AND SKIN.
- RISK OF SERIOUS DAMAGE TO EYES
- KEEP OUT OF REACH OF CHILDREN.
- IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF CLEAN WATER AND SEEK MEDICAL ADVICE.
- AFTER CONTACT WITH SKIN, WASH IMMEDIATELY WITH PLENTY OF CLEAN WATER.
- WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE /FACE PROTECTION.

WARRANTY

Multichem warrants **ELECTROGARD® PREFAB EIM** to be free from manufacturing defects as defined in this warranty. Manufacturing defects are considered to be those defects that occur due to the quality of the ingredients or from the manufacturing process itself. This warranty does not include labour costs and other costs or expenses associated with the removal or installation of **ELECTROGARD® PREFAB EIM**.

Because the Multichem does not perform the actual installation, it cannot be held responsible for the results of the application. Multichem specifically disclaims problems that occur due to weather conditions, structural movement, structural design flaws and application techniques.

This warranty is in lieu of all other warranties expressed or implied including the warranty of merchantability and fitness of purpose and of all other obligations or liabilities on Multichem part. Multichem neither assumes nor authorizes any person to assume for Multichem any liability in connection with the sale and installation of **ELECTROGARD® PREFAB EIM**.

Because of constant improvement of manufacturing techniques and formulations, Company reserves rights to change this datasheet and its contents without prior notice.