KISCOTE FPE

Polyurethane Waterproofing Membrane for Exposed Area

DESCRIPTION

KISCOTE FPE is a specially formulated single-compound, cold applied, UV-stable, moisture-cured elastomeric polyurethane waterproofing membrane used for exposed area.

It is designed to withstand human traffic and resist weathering and most industrial chemicals while acting as a seamless waterproofing membrane.

Specially designed anti-slip additives can be easily blended to provide a non-slip surface.

RECOMMENDED USE

- Wet areas (under tile) in bathrooms, kitchens, balconies
- Bridges, highway
- Cold room
- Concrete tanks
- Culverts
- Dam, Drain, fountain
- Roofs, flowerbeds, planter boxes
- Exposed walkways
- Sea-walls and similar areas that require waterproofing properties

ADVANTAGES

- Excellent weather and UV resistance
- Able to withstand light foot trafficking.
- Able to withstand high hydrostatic pressure.
- Economical and simple to apply.
- Elastomeric and seamless.
- Excellent adhesion to most construction structures.
- Highly flexible – able to bridge substrate cracks up to 2mm width.
- Rapid curing time.
- Provides high sun reflectivity, contributing to thermoinsulation.
- Resistant to algae and fungus growth.
- Resistant to detergent, oils, seawater and many industrial chemicals.
- Resistant to frost (even below -20°C).
- Simple and fast repair works, if needed.

PACKAGING

KISCOTE FPE is supplied in 24kg per pail

APPLICATION GUIDELINES

a) Surface Preparation

- Receiving surface shall be relatively even and smooth finish.
- Surface must be clean and free of voids, loose materials, oil, grease, curing compounds, sealers and any foreign matters.
- Areas at brick-walls to receive waterproofing; brick pointing must be made evenly flush.
- Prior to the application of waterproofing, all floor trap pipes must be cut, made same level of the receiving surface.
- All crack-lines, holes, honeycomb or unsound surface must be patched and repaired with KISCRETE 1.
- Along all horizontal floor/ vertical wall junctions, corners and around pipe protrusions a cement sand mortar filler must be formed.

b) Application

- Stir well prior to application of KISCOTE FPE with brush, roller or suitable spraying equipment onto the receiving surface.
- The recommended wet film thickness is 0.70 mm per coat for both horizontal floor and vertical wall.
- KISCOTE FPE is applied in two coats, achieving a total dry film thickness of 1.2 mm for both horizontal floor and vertical wall.
- Allow approximately 4-6 hour for first coat to dry before applying the second coat.
- Leave the second (or final) coat of KISCOTE FPE to dry for at least 24 hours before proceeding to conduct any flooding test.

LIMITATION

KISCOTE FPE must not be applied as follows: -

- During rain or when rain is expected for unsheltered application.
- On substrates that are not dry or fresh concrete with very high moisture content.
- In areas subjected to rising damp or negative hydrostatic pressure.
- To be left exposed to heavy vehicle traffic.
- As sealant for expansion, control or structural joints.

COVERAGE

- Approximately 0.7 – 1.2 kg of KISCOTE FPE per coat application per square meter.
- Approximately 1.4 – 2.4 kg of KISCOTE FPE for 2 coats application per square meter.
- 24 kg/ pail can cover approximately 10 – 17 square meter (2 coats).

(Coverage may vary with surface and other site conditions)

STORAGE

KISCOTE FPE should be stored in tightly 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 FPE	
Application limits	5 – 35°C
Adhesion to concrete (ASTM D903)	> 2.0 N/mm^2
Colour	Grey
Crack bridging capability (EOTA TR-008)	No cracks at 2mm width
Resistance to water pressure (DIN EN 1928)	No leak (1m water column for 24hr)
Shore a hardness (ASTM D2240)	65
Tensile strength (ASTM D412)	> 4.0 N/mm^2
Elongation at break (ASTM D412)	> 800%
Water vapour permeability (ISO 9932:91)	> 5g/m^2/24hours
Solar reflectance (SR) (ASTM E903-96)	0.87
Thermal resistance (80°C FOR 100 DAYS) (EOTA TR-011)	Passed – No significant changes
UV accelerated ageing, in the presence of moisture (EOTA TR-010)	Passed – No significant changes
Light pedestrian traffic time	12 hours
Final curing time	7 days
Chemical resistance a) 0.5% NAOCL b) 1.25% NH_4OH c) 3.7% HCL	No disintegration, blistering, swelling, cracking or crazing