

Specification

Single pack, ultra high solids, polyurethane embedment and protection coat, partially or fully reinforced with Elastomat glass fibre matting to provide a membrane of excellent mechanical properties.

Suitable for a wide range of existing substrates, including bituminous surfaces, GRP, concrete, timber, asphalt, approved insulation boards, metal profiled sheets and single ply systems.

Features

Cold applied, using hand lay process
Reinforced with chopstand matting
Minimal disruption

Durable finish
Can be applied during or after construction
Maintenance free

Aperture PU

Tensile strength (BS2782 : 320A)

Unreinforced system – 7N/mm²
Reinforced system 10 – 9N/mm²

Elongation (BS2782 : 320A)

Unreinforced system – 300%
Reinforced system 10 – 30%

Tear strength (BS2782 : 32013)

Unreinforced system – 7N/mm
Reinforced system 10 – 25/mm

Coating adhesion (ASTM D4541)

Unprimed concrete – 2N/mm²
Primed concrete – 3-5N/mm²

Thermal cycling/low temperature flexibility (BS3900 : E I : 1992)

Thermal cycled film (16 hours @ – 25°C/8 hours + 80°C. 7 cycles) tested at 0°C. Pass 5mm dia. mandrel

Freeze/thaw

Constant immersion, 16 hours @ – 20°C
8 hours @ -25°C. 5 cycles.
No significant changes in mechanical properties.

Impact Resistance

ASTM G 14-88 – 2.5 Joules
BS3900: E3 – No cracking or detachment from substrate

Heat ageing (56 days) @ 70degrees

No significant changes in mechanical properties.

Water vapour transmission (ASTM E96/1653)

Specific permeability – 25/m²/day

Resistance to fire (BS476 : Part)

Indicative test rating

Accelerated weathering (ASTM G53 – 2000 hours)

Minor surface chalking, no blisters, no loss of adhesion

Salt spray (ASTM B117 – 1000 hours)

Minor surface chalking, no blisters, no loss of adhesion

Water Absorption (ASTM D570)

7 days – 5% weight gain
21 days – 6.5% weight gain

The Guide to Sealing Apertures in Metal Roofs and Walls

The System:

Flexi resin - combination of flexibility, toughness and weather resistance

Flexi resin - flexible, high impact resistance

Local or full reinforcement - reinforcing mat offers strength plus excellent elongation properties

Flexi resin - applied either side of matting, penetrates down into decking and up into mat to form one membrane

Substrate