DESCRIPTION

- single component elastomeric waterproofing material based on plasticized acrylic resins with ultra violet light resistant pigments

PRINCIPAL CHARACTERISTICS

- ready to use single component material
- excellent flexibility and elongation properties
- provides a seamless waterproofing membrane for roof areas
- follows the contour of irregular surfaces maintaining a uniform thickness
- no objectionable odour
- non toxic
- non yellowing
- conforms to environmental specifications

COLOUR AND GLOSS

white (other light colours on request) – flat

BASIC DATA AT 20 °C

Specific Gravity
approx. 1.35g/cm³

Solids content
approx. 45 % by volume

Recommended dry film thickness
500 µm

Theoretical spreading rate
approx. 0.9 m²/ltr for 500 µm depending on the nature and condition of the substrate and the application method employed

Touch dry after
approx. 4 hours

Overcoating interval
min. 16 hours
max. no limitations

Shelf life (cool,dry place)
12 months

Flashpoint
above 65 °C

Available pack size
15 ltr and 20 ltr

RECOMMENDED SUBSTRATE CONDITIONS

- all surfaces should be dry and free from any contamination
- previous coat; dry and free from any contamination

SYSTEM SPECIFICATION

Concrete

- all surfaces to receive coating should be cleaned by sandblasting or acid etching. If acid etching is used, surfaces should be thoroughly washed afterwards with clean water to remove any residue then allowed to dry to below 12% moisture content. Defects greater than 3mm in depth should be filled with a suitable repair mortar.
Cracks and control joints
- all cracks and joints, except for non-moving shrinkage cracks, must be sealed with an approved elastomeric sealant. Large cracks (>1.5mm) should be raked out and sealed with an approved elastomeric sealant or repair mortar. Sealant should be applied to the inside of the cracks only and not on to the roof surface itself. Secondary control and expansion joints should be sealed with polyurethane or polysulphide sealants. A backing rod should be used to control the sealant depth. All cracks and control joints must be reinforced by embedding a 10 cm wide strip of fibreglass tape in the wet Roof-Flex coating and brushed evenly over the cracks and joints to a width of approx. 125mm and a wft of approx. 500 µm. The application of Sigma Roof-Flex can subsequently be done over the entire area, including taped areas.

Application information
- porous and slightly textured areas should be primed first with one coat of Sigma Roof-Flex thinned 20% with sweet water at a dft of between 100 – 150 µm.
- at intersections of membrane and vertical walls, columns, pipes and other penetrations, including cracks and control joints, embed fibreglass tape between 2 coats of Sigma Roof-Flex

METHOD OF APPLICATION

AIRLESS SPRAY
Recommended thinner: sweet water
Volume of thinner: 0 - 10%

BRUSH AND ROLLER
Recommended thinner: sweet water
Volume of thinner: 0 – 10%

CLEANING SOLVENT
Recommended thinner: sweet water

PHYSICAL DATA OF CURED MATERIAL
Tensile strength: 0.28 N/mm² (ASTM D-412)
Average elongation at break: 2500% (ASTM D-412)

SAFETY PRECAUTIONS
- see safety sheet 1570 for information on LEL and TLV values

ENVIRONMENTAL
Complies with Environmental specifications
VOC < 50g/l

REFERENCES
- explanation to product data sheets on information sheet 1551