FLS 105 Reinforced Detailing Liquid

Product Description

FLS 105 Reinforced Detailing Liquid is a thixotropic, fibre reinforced, one component polyurethane liquid membrane used for waterproofing. Recommended uses include flashings, gutter refurbishments, detailing of plant and awkward penetrations. It can also be used to reinforce joints, upstands, corners and details prior to application of FLS 104 Liquid Waterproofing.

Due to its unique formulation, it cures rapidly to form a bubble-free membrane with excellent mechanical properties.

Apply with a brush at a minimum consumption rate of 1.8 kg per m^2.
Brush in one direction only to achieve uniform distribution of the fibre reinforcement.

Recommended uses

- Flashings
- Wall-floor connections
- Chimneys
- Pipes
- Photovoltaic systems
- Air-conditioning units
- Gutters

Features & Benefits

- No reinforcement necessary
- Fast curing: Skin formation time of 2 hours
- Bubble and defect free membrane
- Excellent weather and UV resistance. The light grey colour reflects solar energy and reduces the internal temperature of the building.
- Excellent thermal resistance, the product never turns soft. Recommended service temperature 80^0C, max shock temperature 200^0C
- Resistance to the cold: The membrane remains elastic even down to -40^0C.
- Excellent mechanical properties, high tensile and tear strength, high abrasion resistance
- Good chemical resistance

Technical specifications

In liquid form (before application):

Property	Units	Method	Specification
Viscosity (Brookfield)	cP	ASTM D2196-86, @ 25 ^{0}C	5000-7000
Specific weight	gr/cm^3	ASTM D1475 / DIN 53217 / ISO 2811, @ 20^{0}C	1.4-1.5
Flash point	^{0}C	ASTM D93, closed cup	42
Tack free time, @ 77 ^{0}F (25 ^{0}C) & 55% RH	hours	-	2 - 3
Recoat time	hours	-	6 - 48

The cured membrane:

Property	Units	Method	Specification
Service temperature	^{0}C	-	-40 to 80
Max. temperature short time (shock)	^{0}C	-	200
Hardness	Shore A	ASTM D2240 / DIN 53505 / ISO R868	80
QUV Accelerated Weathering Test (4hr UV, @ 60 ^{0}C (UVB-Lamps) & 4hr COND @ 50 ^{0}C)	-	ASTM G53	Passed (2,000 hours)

Application Uses

Can be successfully applied to: concrete, plywood, cement roof tiles, asphalt and felt roofs.

For information about other substrates, please contact our technical department.

Concrete substrate conditions (standard):

- Hardness: R28 = 15Mpa.
- Humidity: W < 10%.
- Temperature: 5-35^{0}C.
- Relative humidity: < 85%.

Primer selection for special conditions and substrates: Please refer to the Primer Selection Table.

Application Procedure

Clean the surface using a high pressure washer, if possible. Remove oil, grease and wax contaminants. Cement laitance, loose particles, mould release agents, cured membranes must be removed. Fill surface irregularities with FLS 107 Joint Sealant (Refer to separate data sheet).

Priming

Apply the required primer following the guidelines in the applicable application guide.

Consumption

Minimum total consumption 1.8 kg per m^2.

Cleaning

Clean tools and equipment first with paper towels and then using FF860 Solvent Cleaner. Rollers will not be re-usable.

Packaging

5kg or 15kg tins

Coverage

Approximately 2.78m^2 per 5kg tin

Approximately 8.33m^2 per 15kg tin

Shelf life

Can be kept for 12 months maximum in the original unopened tins in dry places and at temperatures of 5^0C to 25^0C. Once a tin has been opened, use as soon as possible.

Precautions

Contains volatile flammable solvents. Apply in well-ventilated, no smoking areas, away from naked flames. In closed spaces use ventilators and carbon active masks. Keep in mind that solvents are heavier than air so they creep on the floor. Refer to MSDS for further information.