

## FLS 106 Liquid Waterproofing

### Product Description

FLS 106 Liquid Waterproofing is a high performance, single component, liquid applied polyurethane based waterproofing membrane that utilises a humidity activated technology.

It cures with reaction to atmospheric humidity to form a highly elastic and extremely hydrophobic membrane with excellent mechanical and chemical properties. Due to its excellent adhesion to several types of substrates and its resistance to UV and weathering, FLS 106 is an ideal solution for many types of waterproofing application.

FLS 106 is the primary component in the FLS-Shield range of Fatra liquid applied waterproofing products.



**FLS Shield: ISO & CE Certified solution for commercial or domestic projects**

FLS 106 Liquid Waterproofing	
Tin size	6 kg / 15 kg
Consumption	1.5 kg per m <sup>2</sup>
Coverage rate	Approximately 4 m <sup>2</sup> per 6 kg tin / 10 m <sup>2</sup> per 15 kg tin (Subject to substrate condition and porosity)
Tack free time	Allow 4 to 6 hours
Recoat time	Allow 24 to 48 hours (Re-priming will be required after 48 hours)
Shelf life	Store in dry & cool place at 5°C to 25°C, for up to 12 months from production date. Once opened use as soon as possible.

## Application

The sequence of works is: **Preparation** ▶ **Joint sealant** ▶ **Primer** ▶ **Reinforcement** ▶ **Waterproofing**

Ensure all surfaces are clean, dry and free from any debris, dust, dirt, loose particles, or standing water. Clean the surface using a high pressure washer, if possible.

Treat all construction joints, details and surface irregularities with FLS 108 Joint Sealant and apply the appropriate primer.

Stir well before use. Use a low speed (300rpm) mixer. FLS 106 Liquid Waterproofing should be applied with a brush, roller or pin rake at a minimum consumption rate of 1.5 kg per m<sup>2</sup>.

## Features & Benefits

- Balanced curing with fast skin formation time of 2 hours
- Bubble and defect free membrane
- Excellent weather and UV resistance. The white colour reflects much of the solar energy and so reduces the internal temperature of buildings considerably
- Excellent thermal resistance, the product never turns soft. Recommended service temperature 90°C, max shock temperature 200°C
- Resistance in the cold: The film remains elastic even down to -40°C
- Excellent mechanical properties, high tensile and tear strength, high abrasion resistance
- Good chemical resistance
- Moisture vapor transmission: The film breathes so there is no accumulation of humidity under the coat
- Primers available for almost every substrate

## Cleaning

Clean tools and equipment first with paper and then using FF860 Solvent Cleaner. Rollers will not be reusable.

## Safety Information

FLS 106 contains solvents. Apply in well-ventilated areas, away from naked flames. In closed spaces use ventilators and carbon active masks. Refer to MSDS for further information.

## Recommended uses

- Felt roof overlays
- Asphalt roof overlays
- Single ply membrane overlays
- Gutter refurbishment
- New build inverted roofs
- New build warm roofs
- Detailing of awkward junctions

## Technical specifications

In liquid form (before application):

Property	Units	Method	Specification
Viscosity (Brookfield)	cP	ASTM D2196-86 @ 25°C	2,000 – 5,000
Specific weight	gr/cm <sup>3</sup>	ASTM D1475 / DIN 53217 / ISO 2811 @ 20°C	1.4 - 1.5
Flash point	°C	ASTM D93, closed cup	42
Tack free time, @ 77°F (25°C) & 55% RH	hours	-	4 to 6
Recoat time	hours	-	24 to 48

In cured form (after application):

Property	Units	Method	Specification
Service temperature	°C	-	-40 to 80
Max. temperature short time (shock)	°C	-	200
Hardness	Shore A	ASTM D2240 / DIN 53505 / ISO R868	70
Tensile strength at break @ 23°C	Kg/cm <sup>2</sup> (N/mm <sup>2</sup> )	ASTM D412 / EN-ISO-527-3	80 (8,5)
Percent elongation @ 23°C	%	ASTM D412 / EN-ISO-527-3	> 200
Water vapour transmission	gr/m <sup>2</sup> .hr	ASTM E96 (Water Method)	0.8
Tensile set (after 300% elongation)	%	ASTM D412	< 3%
QUV Accelerated Weathering Test (4hr UV, @ 60 °C (UVB Lamps) & 4hr COND @ 50 °C)	-	ASTM G53	Passed (2,000 hours)

### Technical characteristics

Characteristic	Performance	Test Standard	Harmonised Technical Specification
External Fire Performance	Broof (t1) Broof (t4)	ENV 1187 EN 13501-5	ETAG 005-6: 2000
Reaction to Fire	Euroclass E	EN 13501-1	
Categorization by working life	W3	ETAG 005-6:2000, 4.3.3	
Categorization by climatic zones	M & S (Moderate and Severe)		
Categorization by imposed loads	P1-P4		
Categorization by roof slope	S1-S4		
Lowest Surface Temperature	TL4		
Highest Surface Temperature	TH4		
Release of Dangerous Substances	None Contained		