



## **SEMPU DETAIL 1K**

**POLYURETHANE FIBER REINFORCED LIQUID MEMBRANE**

# SEMPU DETAIL 1K

## FIBER- REINFORCE POLYURETHANE LIQUID MEMBRANE

### 1 DESCRIPTION

SEMPU DETAIL 1K is single component, fiber- reinforced, thixotropic liquid membrane which cures rapidly to form a thick layer without bubble.

### 2 ADVANTAGES

- Fast curing,
- Doesn't require any reinforcement in flashing points.
- Never gives bubbles even it is applied thick layer.
- Excellent mechanical properties; high elongation ability, tensile, tear and abrasion resistance.
- Preserves its mechanical properties between -40°C and +90°C.
- It is permeable to water vapor. Having a breathable structure is does not cause accumulation in the substrate.
- When the material is damaged, it can be repaired easily and quickly with SEMSOL TN 100

### 4 CONSUMPTION

Minimum total consumption: 1,8 kg/m<sup>2</sup>

### 5 PACKAGING

5 and 25 Kg in metal buckets.

### 3 USES

- Flashings,
- Wall & Floor Joints
- Pipes, gutters and chimneys,
- Air condition units,
- Photovoltaic systems and light roofs.

### 7 TECHNICAL SPECIFICATIONS

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QUALIFICATIONS	FEATURES	METHODS
Color	Grey	-
Density	1,35±0,5g/cm <sup>3</sup>	ASTM D1475 / DIN 53217 / ISO 2811, 20°C
Shore	50-60 Shore A	ASTM D2240 / DIN 53505 / ISO R868
Viscosity	15000-20000 cP	ASTM D 2196-86 / EN ISO 3219 (+25°C)
Adhesion to Concrete	<b>2,0 (N/mm<sup>2</sup>)</b>	<b>ASTM D4541</b>
Tensile Strength	4,0- (N/mm <sup>2</sup> )	ASTM D 412
Elongation At Break	%500	ASTM D412 / EN-ISO-527-3
Tack Free Time	2-4 hours	-
Recoat Time	6-48 hours	-
Tack Free Time	7 days	-

\* Viscosity measured at + 25°C according to EN ISO 3219 standards. Viscosity increases inversely with temperature.

## 7 APPLICATION PROCEDURE

### Surface Preparation & Concrete Standards

Strength: C20/25.

Humidity:  $W \leq 5\%$ .

Temperature: 5-35 oC.

Relative

humidity: < 85

The substrate must be clean, dry and free of all contamination such as dirt, oil, grease, and coatings etc. All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.

### Priming

- For porous substrates: **SEMPU PRIMER 1K, SEMPOXY PRIMER WB and SEMPU PRIMER 2K**
- Metal or non porous surfaces: **SEMPOXY PRIMER 1100**

### Application

The mixture should be applied by brush, roller or airless spray covering all surface properly.

## 8 SHELF LIFE AND STORAGE

Can be kept for minimum 12 months in the original unopened pails in dry places and at temperatures of 5-25 oC. Once a pail has been opened, use as soon as possible.

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### 9 PRECUATIONS

Flammable and explosion products should be kept away during the application. Protective gloves and masks should be used for hands and eyes during application. The product should be used in well ventilated environments. If the material comes into contact with eyes, it should be washed immediately with sicient water. Children should kept away from the product. For more detailed information, ask for the Safety Data Sheet (MSDS).

The technical data and application methods given above are presented as a result of tests and applications carried out within the company. Considering that the conditions depending on the ground, weather conditions and humidity may vary during the application of the products, detailed examination and purposeful applications should be decided after examination by authorized persons in order to understand whether they will meet the special requirements and purposes before each application. The correct application of our products is your sole responsibility and liability. We will provide products with continuity and consistent quality under our general terms of sale and delivery. Users are responsible for compliance with local laws, the environment and obtaining permits from the necessary authorities. The new edition of the technical data sheet supersedes the previous edition. Ask your authorized sales representative for the current edition.