



SEMPU 1500 1K

SINGLE COMPONENT POLYURETHANE BASED LIQUID MEMBRANE

SEMPU 1500 1K

SINGLE COMPONENT POLYURETHANE BASED LIQUID MEMBRANE



DATE:05.10.2022

REV. DATE:01.01.2025 REV:02

1 DESCRIPTION

SEMPU 1500 1K is a single component, easy to apply, pu based and economic liquid applied waterproofing membrane. It forms a highly elastic film by adhering strongly to all types of surfaces

SEMPU 1500 1K; It contains pure elastomeric hydrophobic polyurethane resin which result in excellent mechanical, chemical, thermal and natural element resistance properties.

3 ADVANTAGES

- Excellent chemical resistant.
- Resistant to standing water contact.
- 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

5 CONSUMPTION

First Layer: 0.8-0,9 kg/m².

Second Layer: 0.8 -0,9 kg/m².

Minimum total consumption: 1.6-1,8 kg/m².

6 PACKAGING

1 Kg, 5 Kg, 25 kg in metal buckets.

2 USES

- Gypsum and cement panels
- Undertile application with a suitable primer.
- Wet areas like bathrooms,kitchens.
- Roofs, terraces, balconies
- Lightweight roofs made of metal or fibre cement
- Asphalt membranes
- As the main waterproofing membrane in parking lot waterproofing systems
- Stadium stands.

4 SHELF LIFE

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.

SEMPU 1500 1K

SINGLE COMPONENT POLYURETHANE BASED LIQUID MEMBRANE



DATE:05.10.2022

REV. DATE:01.01.2025 REV:02

7 TECHNICAL SPECIFICATIONS

QUALIFICATIONS	FEATURES	METHODS
Color	White & Grey	-
Density	1,42-1,47 g/cm ³	ASTM D1475 / DIN 53217 / ISO 2811, @ 20°C
Shore	70 Shore A	ASTM D2240 / DIN 53505 / ISO R868
Viscosity	2500-3500 cP	ASTM D 2196-86 / EN ISO 3219 (+25°C)
Water Vapor Permeability	0,8 gr/m ² saat	ASTM E96 (Water Method)
Adhesion to Concrete	>2,4 (N/mm ²)	ASTM D4541
Tensile Strength	>4 (N/mm ²) (+23°C)	ASTM D412 / EN-ISO-527-3
Elongation At Break	≥%400	ASTM D412 / EN-ISO-527-3
Tack Free Time	6-8 saat	-
Recoat Time	12-24 saat	-
Full Curing Time	7 days	-
QUV Accelerated Weathering Test (4hr UV, @ 60 oC (UVBLamps) & 4hr COND @ 50 oC)	Passed	ASTM G53

8 APPLICATION PROCEDURE

Surface Preparation & Concrete Standards

Strength: C20/25.

Humidity: W ≤ 5%.

Temperature: 5-35 oC.

Relative humidity: < 85

The surface is washed with pressured water and oil, grease, paran wastes, cement grout, loose particles, mold release areas, cured old membranes should be removed.

Priming

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

Application

Apply the material with roller or brush at least in two coats. Leave 6-24 hours between coats. If more time passes (for example more than 4days) please contact wit our technical department for better adhesion solution.

SEMPU 1500 1K

SINGLE COMPONENT POLYURETHANE BASED LIQUID MEMBRANE



DATE:05.10.2022

REV. DATE:01.01.2025 REV:02

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 sucient water. Childrens should kept away from the product. For more detailed information, ask for the Safety Data Sheet (MSDS).

FOTO GELECEK

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 sucient water. Childrens should kept away from the product. For more detailed information, ask for the Safety Data Sheet (MSDS).

CE