



SEMPU SEAL 2K

**TWO COMPONENT POLYURETHANE BASED
POURABLE SEALANT**

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DATE : 02.01.2024

REV. DATE 01.01.2025

REV:02

1 DESCRIPTION

SEMPU SEAL 2K, It is a two-component, polyurethane-based, pourable, highly elastic, self-leveling, high mechanical and chemical resistance joint sealant.

It shows high performance after curing. It also shows very good resistance to chemicals and other destructive factors.

3 USES

- Dilatations of structures,
- Parking lots,
- Terminal ramps,
- Hangars,
- Loading and unloading areas,
- Horizontal joints of indoors and outdoors
- Infrastructures,
- Airport runways
- Sewers
- Gas Stations
- Bridge platforms

2 ADVANTAGES

- Fast curing,
- Maintains its elasticity between temperatures of -40°C and +86°C.
- Easy to apply , self levelling
- Cold applied, pourable.
- It is resistant to abrasion.
- It adheres to almost all surfaces with primer or without primer.
- It is resistant to jet fuels.
- It is resistant to cold. The film maintains its elasticity up to -40°C
- It has excellent mechanical properties; high elongation ability, tensile, tear and abrasion resistance
- Resistant to many chemicals

4 CONSUMPTION

LENGTH \ DEPTH	2 cm	4 cm	8 cm
1 cm	0,280 kg/m	0,560 kg/m	1,12 kg/m
2 cm	0,560 kg/m	1,12 kg/m	2,24 kg/m

5 PACKAGING

8+4 kg set in metal buckets

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6 TECHNICAL SPECIFICATIONS

QUALIFICATIONS	FEATURES	METHODS
Color	Grey	-
Density	1,45±0,05 g/cm ³	ASTM D1475 / DIN 53217 / ISO 2811, @ 20°C
Hardness	35±5 Shore A	ASTM D2240 / DIN 53505 / ISO R868
Viscosity	A Komp.: 1400-2000 cP B Komp.: 4000-5000 cP	ASTM D 2196-86 / EN ISO 3219 (+25°C)
Mixing Ratio (A+B)	2:1 By Weight	-
Solid Content	%85	-
Pot Life (+25°C)	30-35 min.	-
Elongation At Break	>500 %	ASTM D412 / EN-ISO-527-3
Full Curing 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 ≤ 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**

Mixing:

Mix the components by 2:1 with a low speed mixer (300 rpm) or manually. Apply the products immediately after mixing, the pot life of mixture is 30-45 minutes at 20 °C.

Application:

After the bottom of the joint is open, a polyethylene backing rod (or polystyrene) is inserted so as to leave a depth about half of the width of the joint. A & B components are mixed and poured in the joint. It is applied by spatula During application, the sealant should be adhered to the two opposite inner surfaces of the joint

•The components (Should kept at (+15°C- +25°C) are mixed until they are homogenous.

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- Until full curing, of the sealant, it should be protected against water, rain, external factors and mechanical stresses until it sets.
- Recommended application temperature range varies between +5 oC to +35 oC. At higher temperatures, there is a decrease in the pot life of the material.

8 STORAGE AND 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.

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 sufficient water. Children should be 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