

EUFIX PU40

Single component polyurethane based elastomeric sealant

DESCRIPTION AND USE

Eufix PU40 is a one-component polyurethane sealant that has very good adhesion to the almost building surfaces. The reaction with humidity creating permanent elastic sealant.

Eufix PU40 resists UV, water and seawater, temperatures, ozone, solvents, diluted chemicals, and petroleum products in the short time. After curing it is overcoatable. It is designed for sealing and bonding of the metal and the construction, between porous or non-porous materials with the requirement for subsequent overcoating. The middle module ensures that joints are maintained. The sealant has excellent adhesion to porous substrates without primer.

It is particularly suitable for sealing and bonding:

- expansion joints of buildings and concrete floors
- for joining and roof joints
- transition joints of windows and doors
- joints in wood and metal
- bonding and flexible bonding
- in the metal industry

ADVANTAGES

- one-component sealant with high excellent adhesion to most building materials
- thixotropic consistency
- application without primer (for glass, concrete, aluminum).
- resistance to UV radiation
- water resistance
- easy application

BASIC TECHNICAL DATA

Density	1,3 g/m ³
Colors	Black, Grey
Cure time at 23°C and 50% RH	3 mm after 24 h
Temperature resistance	-30 °C to +80 °C
Shore A hardness by 20 °C (ISO 868)	Approx. 40
Elongation at break	> 450 %
Modulus (ISO37)	Approx. 0,4 MPa
Open time	40-50 min.
The movement in the joint	25%
Resistance to dilute acids and alkalis	Average
UV resistance	Good
Weatherability	Excellent
Compatibility with paints	Good water based

INSTRUCTIONS FOR USE

Substrates preparation

The substrates must be clean, dry, dust free and not have any traces of grease or other contaminants that could harm bonding.

Application

Apply a sealant with manual or pneumatic gun. Extrude firmly into the joint to ensure perfect joining of both joint walls. After application of the sealant, is possible to adjust its surface with a suitable moistened tool or push sealant deeper into the joint. The joints should be filled with polyethylene filler prior to application of sealant in order to support the sealant from the bottom and not connect it to the bottom of the joint.

Cleaning

Tools can be cleaned with MEK, acetone or special wipes before the sealant has completely cured. After curing, abrasion is necessary.

WARNING

Do not apply Eufix PU40 at a temperature below 5°C. Avoid any contact with non-cured MS, hybrid PU or silicone sealants as well as with alcohols or ammonia during curing.

CONSUMPTION

Depending on the size of the joint.

Width of the joint	Depth of joint	From one 600ml sausage
5mm	25mm	6 m
5mm	30mm	5 m

PACKAGING

Eufix PU40 is packaged in 600 ml sausages.

STORAGE AND SHELF LIFE

12 months in closed original packaging stored at a temperature below 25°C. In cold weather, store the packaging at about 20°C before use.

SAFETY

Eufix PU40 is not dangerous in normal use, but proper hygienic habits must be observed. See the product safety data sheet for details.

Production is subject to an integrated quality management system in accordance with ČSN EN ISO 9001: 2009 and 14001: 2005.

CHEMICAL RESISTANCE

The sealant is applied between two glass slides and after one month (at 23 ° C and 50% relative humidity), the sealant is dipped into the following chemical products for a period of one month, and then tested on a tensile tester.

Chemical attack	Resistance
Acetic acid 10%	Good
Hydrochloric acid 10%	Good
Sulfuric acid 25%	Good
Nitric acid 10%	Bad
Sodium carbonate 10%	Good
Potassium carbonate 25%	Good
Petrol, diesel	Very Good
Engine oil	Good
Methanol, Ethanol	Good
Glycerol	Very Good
Acetone, Toulon, Xylen	Bad
Chlorine solutions	Bad
Water	Very Good
Seawater	Very Good
Saturated saline solution	Good

Important note

In case of disagreement between data in the technical documentation and data on the packaging, the determining data is located on the packaging. Products of the company EUTIT s.r.o. are subject to warranty on material and production, and its sale is subject to Conditions for the Supply of Goods and Services. Company EUTIT s.r.o. endeavours to ensure that any advice, recommendation, specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products. New issue of technical specifications makes the old issue redundant.