

Super Flex PU500

polyurethane based one component sealant, resistance to surface movements and traffic

Product Description

Super Flex PU500 is single component modified polyurethane sealant that cures by reacting with the air humidity to form a tough and highly elastic low modulus sealant. SuperFlex PU500 has a very wide service temperature range. Suitable for vertical and horizontal joints.



Areas of Application

- General sealing of expansion and construction joints.
- Irrigation channels.
- Water tank.
- Precast concrete elements, wood and metals.
- Basement walls.
- For concrete, marble, wood, steel, ceramic, aluminum, gypsum boards, etc.

Advantages

- Single component ready for use.
- Very easy and economical to use.
- UV resistance.
- Anti- fungus.
- Excellent aging resistance.
- Paint applicable.
- Available in range of colors.
- Excellent acoustic properties.
- Remains elastic at temperatures up to -40°C.
- Recommended for under water applications.
- Good resistance to microorganisms and a variety of chemicals.
- Suitable for drinking water.
- Suitable for sealing joints in swimming pools.
- Good adhesion to most surfaces without need of priming.

Disposal

Empty packages can be thrown to the collection bins according to regional-local regulations or recycling rules. After drying up and hardening the used waste material, throw it away as construction waste material. It is dangerous to dispose of product wastes by burning them.

Points to Take into Consideration

Keep the products in places out of reach of children. Always keep the cover of the products closed. It is recommended to wear gloves and goggles during operation. In case of contact of skin with the material, it should be washed with soap and water immediately. In case of contact with the eye, see your doctor immediately.

General Considerations

Above-mentioned product information and descriptions are prepared for guidance purposes as a result of our experiences and meticulous studies. The variety of related materials and their different construction and operation conditions can not be controlled or influenced by us individually. For applications beyond our control, the guarantee status is only limited to the quality of sold product. Except the manufacturing of the product, no guarantee is given for application. This technical sheet invalidates all the existing sheets. The quality of the performed job may vary depending on your professional use of the product. If you are hesitant, make a little test or get technical help.

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Standards

Super Flex PU500 EXTRA complies with :

- ISO 11600, Type S,N,J,F, Class 25E.
- DIN 18540-F.
- ASTM C920.
- U.S. Federal specification TT-S-00230C, Type2, Class A.

Joint depth

- Half the joint width.

Method of use:

Surface preparation:

- All substrates should be free from dust, clean, dry, oil, grease and any contaminations that could affect the bonding.
- If the substrates need to be cleaned, use methyl ethyl ketone (MEK), acetone or grease remover. Always be sure that the substrates are dry before the application.

Technical Data

Property	
Color	Various
Density	1.35 -1.40 gr/ cm ³
Shore Hardness	40 ± 5
Service temperature	-30°C to to 120°C
Shock temperature	120°C
Application temperature:	+5 up to 50°C
Adhesion in peel	>32 N
Touch free time	2 hrs. @25°C& 55% RH
Cure rate	2-3 mm / day
Flexibility	>600%
Tensile strength at 100% elongation	>2.5MPa
Modulus @ 100% (ISO8339)	Ca 58psi (0.4 MPa)
QUV accelerated weathering test (UVB-Lamps) & 4 hrs. COND@50°C	Passed after 2000 hrs.
Thermal resistance	Passed 100 days @80°C

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Application

- The recommended application temperature range is +5 °C to 50 °C . For cold weather application, store the product in a heated area at 20 °C for 24 hours prior to use. Install polyethylene joint backing road to control the sealant depth.
- Tooling and finishing should be carried out immediately after the application of the sealant.

Limitations

- Not recommended for unsound substrates.
- Although Super Flex PU500 is generally paintable, it is recommended test for the specific paint compatibility.
- Long exposure to UV, will reduce surface gloss, but will not affect sealant performance.

Packaging

Super Flex PU500 is available in 600 cc sausages.

Storage

Super Flex PU500 should be stored in original unopened packages.

Shelf life

Super Flex PU500 has a shelf life of 24 months, if stored under the recommended conditions.

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