

Dr. Fixit PU Sealant

ONE-PART NON-SAG POLYURETHANE SEALANT

Description

Dr. Fixit PU Sealant is a one-part Polyurethane Sealant composed of polyurethane polymer, pigment, filler & additives. It is used for filling and sealing joints in buildings & structures. It is highly elastic & resilient; weather durable, none sagging, watertight with excellent adhesion to almost all building construction materials. It can be over coated.

Standard

ASTM C-920, Type S, Grade NS, Class 25, Use; NT, T, A, and M
DIN EN ISO 11600 – Type F – Classification 25 LM

Area of Application

Sealing of expansion and construction joints as well as joints between different construction materials in high-rise buildings, basements and Floorings etc.

- Sealing joints in between precast concrete panels.
- Sealing Joints in between tiles, bricks, and marble etc.
- Sealing joints of metal container finishing.
- Repairing of non-moving concrete Cracks and control widths.
- Perimeter pointing & curtain wall ceiling.

Rate of Uses

$$\text{Total Number of liters required*} = \frac{\text{Joint width (mm.)} \times \text{Joint depth (mm.)} \times \text{Joint length (m.)}}{1000}$$

* Wastage is not considered

Joint design

- For various reasons, different types of joints are provided with width depth ratios in different proportions. Depending on the horizontal or vertical movements, the cured sealant should retain its original shape after the deformation of expansion/contraction. So width depth ratio is important.

Width: Depth Ratio

Joint Width (mm.)	Width : Depth Ratio
For 6 to 12 mm. joint width	Depth shall be 1:1 (equal)
For 12 to 50 mm. joint width	Depth shall be 2:1 (half)

Method of Application

1. Joint Preparation:

- Joint edges should be sound and free from grease or oil contaminations. If spalled, it should be rectified properly by using polymer mortar or epoxy mortar.
- Use a closed cell **Dr.Fixit Backing Rod** as a back up material. Back up material is used to adjust width to depth ratio and falling of sealant while application. Ex: thermocol sheet can be used as a back up material.
- Fix a bond breaker tape over the backup material to prevent third surface adhesion.
- Fix a masking tape on both sides of joint surface to get neat & clean appearance of joints after application of sealant.

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2. Application

- **Dr. Fixit PU Sealant** is available in 600 ml sausages & 300 ml cartridge. Insert the sausage in hand operated application gun. Apply nominal pressure over the trigger of the gun so that sealant starts extruding out of the nozzle & fill the sealant in joints. Apply slightly in excess for tooling & finishing purpose.

3. Finishing

- Tool the sealant immediately with tooling knife by pressing against the joint to remove air pockets & to ensure 100% contact and adhesion with the surface.

4. Cleaning

- After sealing the joint the tools and equipments should be cleaned immediately with kerosene or any other cleaning solvents.

Precautions & Limitations

- Maximum width for application in a joint is 50 mm.
- Minimum depth of seal is 6 mm.
- Do not expose the sealant to high temperatures.
- Avoid application on damp and moist substrates and at Temperature below 5°C.
- Sealant will not adhere to substrates with contamination and traces of bitumen.
- Adhesion of the sealant must only be on two opposite faces.
- Do not carry out sealing operations during hot weather conditions.
- Use of shalitex board as a back up material should be avoided.
- Application to be started only after 30 minutes of priming the substrate.
- White grade, May slightly yellow on exposure to UV light.

Technical Information

Properties	Specification / Standard	Results
Appearance	-	Pasty
Color	-	White/Grey
Density at 20 °C	-	1.16 ± 0.05
Sagging	(ISO 7390)	None
Application temperature	-	5 to 35 °C
Skin formation time at 23 °C and 50 %HR	-	5 to 10 h
Cure time at 23 °C and 50 % HR	-	> 2 mm/24 h (Depending on climate condition and joint size)
Final Shore A hardness (ISO 868 – 3 seconds)	ISO 868 – 3	Ca 25
*Modulus at 100 %	ASTM D412	0.3 Mpa
*Elongation at break	ASTM D412	> 600 %
*Tensile Strength	ASTM D412	2.6 Mpa
Temperature resistance	-	-30 to +80 °C
Resistance to dilute acids and bases	-	Average
UV resistance	-	Good

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Water and salt spray resistance	-	Excellent
Compatibility with paints	-	Water based : yes Solvent based : carry out tests beforehand

Packing

Dr.Fixit PU Sealant
600 ml sausage
300 ml cartridge
Color ; White / Grey

Shelf Life & Storage


- Shelf life is 12 months from the date of manufacturing.
- Stored in cool and dry place

Health & Safety Precaution

- Some people are sensitive to solvents, resins and hardeners and so it is advisable to use hand gloves and goggles.
- Avoid application on damp and moist substrates and at Temperature below 5°C.

Disclaimer

The product information and the recommendations relating to the application and end-use of Dr.Fixit products, are based on Dr.Fixit's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Dr.Fixit's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Dr.Fixit reserves the right to change the properties of its products without notice, so the company does not assume liability of any legal from this product information.

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