

TECHSEAL PU1

SINGLE COMPONENT POLYURETHANE ELASTOMERIC SEALANT

DESCRIPTION

TECHSEAL PU 1 is single component polyurethane based elastomeric sealant which cures under the effect of atmospheric humidity. It is highly elastic, tear and weather resistant. Joints or fabrications formed with this sealant can be expected to extend and compress a total of ($\pm 30\%$) of original joint dimensions.

TYPICAL APPLICATIONS

- Bonding different materials used in the building industry.
- Good adhesion without primer on materials like wood, anodized aluminum, polyester, glass, concrete, stone, ceramic tiles, stoneware.
- For difficult materials, including plastics such as PVC, ABS, PMMA, or materials such as raw aluminum, lacquered metal, perform preliminary tests to determine whether a surface preparation is necessary.
- Concrete Highways, Air field run ways.

FEATURES & ADVANTAGES

- Excellent adhesion & bonding strength
- Excellent adhesion to most materials including wood, anodized aluminum, polyester, glass, concrete, stone, ceramic tiles, stoneware
- Paintable
- Resist to fungal attack. Also suitable for potable water
- Excellent water and chemical resistance
- High movement accommodation ($\pm 30\%$)

TECHNICAL TEST PARAMETERS

S. No	Test Parameters	Results
1	Appearance	Pasty
2	Color	Grey & White
3	Density at 20°C (ISO 101)	1.16 \pm 0.05
4	Sagging (BS 4254)	< 3mm
5	Application Temperature	5 to 35°C
6	Skin formation time at 23°C and 50% HR	5 to 10 h

7	Cure time at 23°C and 50% HR	> 2mm/24h
8	Shore A hardness (ASTM D-2240)	Approx. 25
9	Modulus at 100 % (ASTM D 412)	≤ 0.4 MPa
10	Elongation at Break (ASTM D 412)	> 400%
11	Temperature Resistance	-40 to +80°C
12	MAF (IRC-57)	± 30 %
13	Resistance to dilute acids and bases	Average
14	UV Resistance	Good
15	Compatibility with paints	On cured sealants Waterbased : Yes Solvent Based : Carry out tests beforehand
16	Specific Data	Weatherability: Good
17	Tear resistance (ISO 34)	6.5 N/mm
18	Complies to BS 5212	YES
19	Complies to EN 14187-2005	YES
20	Complies to IRC 57 (2006) for MAF	YES

DIRECTION FOR USE

Substrate preparation:

- The substrates must be clean, even, dry, and free of dust, oil, grease and any contaminants that could harm bonding.
- Check the compatibility of the solvent used with the substrates.
- When using solvents, extinguish all sources of ignition and carefully follow the safety and handling instructions given by the manufacturer or supplier.
- Apply a primer if necessary.
- If necessary, rub down metal surfaces beforehand. Clean them again after rubbing down. Allow the substrate to dry after degreasing.
- We recommend that concrete is cleaned with a metal brush.

Caulking:

- TECHSEAL PU 1 can be applied by a manual or pneumatic gun.
- After application, use a putty knife to smooth the joint with soapy water.
- This product should be used within 24 hours of opening the sausage protection; otherwise, the sealant could cure in the sausage. Do not apply at a temperature under 5 °C.
- Avoid any contact with non-cured MS, hybrid PU or silicone sealants as well as with alcohols or ammonia during curing.

COVERAGE

To estimate the no. of running meter work calculates by following formula.

It can be very depend on substrate condition.

L= 862 / (W X D)

Where, L= Length of the joint in linear running meter

W = Width of the joint in mm. D = Depth of the joint in mm.

PACKING, STORAGE & SHELF LIFE

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

600 ml sausages

Disclaimer:

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