HIGH-TECH CHEMICALS

HIGH TECH PU SEALANTS

One Component Polyurethane Sealant

TECHNICAL DATA SHEET

DESCRIPTION

HIGH TECH PU SEALANTS is a one component polyurethane sealant that cures with atmospheric moisture to form a flexible, durable and long-lasting elastomeric sealant. It provides excellent adhesion to most construction materials and is resistant to weathering, UV rays, water and many chemicals.

It is ideal for a wide range of sealing and waterproofing applications.

RECOMMENDED USES

- Expansion and control joints.
- Sealing of masonry joints.
- Sealing around doors and windows.
- Sealing of curtain walls.
- Sealing in metal structures.
- Sealing of cracks.
- Sealing of glass blocks.
- Tile joints.
- Roofing and cladding applications.
- General waterproofing applications.

PROPERTIES

- ✔ Excellent adhesion to most substrates.
- ✔ High elasticity and movement accommodation.
- ✔ Resistant to water, UV rays and weathering.
- ✔ Paintable after full cure.
- ✔ Non-shrinking and non-sagging.
- ✔ Good resistance to aging and chemicals.
- ✔ Easy to apply.

TECHNICAL DATA

Appearance	Thixotropic Paste
Color	White, Grey, Beige, Brown, Black
Density @ 25°C (g/cm³)	1.20 ± 0.05
Skin Formation Time @ 23°C, 50% RH	60 – 120 min
Cure Rate @ 23°C, 50% RH	2 – 3 mm / 24 h
Shore A Hardness (after 7 days)	25 ± 5
Tensile Strength (ISO 37)	> 1.5 MPa
Elongation at Break (ISO 37)	≥ 600%
Movement Accommodation Factor	± 25%
Application Temperature	+5°C to +35°C
Service Temperature	-40°C to +80°C
Shelf Life	12 Months

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APPLICATION GUIDELINES

SURFACE PREPARATION

All surfaces must be clean, dry and free from dust, oil, grease, loose particles or any contaminants that may affect adhesion. Remove old sealant residues. For best results, the use of a suitable primer is recommended on porous surfaces.

APPLICATION

Insert the sausage into a suitable caulking gun and cut the tip. Apply evenly into the joint ensuring full contact with the sides of the joint. Tool the sealant within the skin time for a smooth finish.

CURING

Curing depends on temperature and humidity. Allow the sealant to cure completely before subjecting to heavy movement or water immersion.

SAFETY PRECAUTIONS

- Wear protective gloves and goggles.
- Avoid contact with skin and eyes.
- In case of contact, wash with plenty of water.
- Do not inhale vapors.
- Keep out of reach of children.
- Store in cool and dry place.

STORAGE

12 months from the date of manufacture when stored in original unopened packaging in a cool, dry place protected from direct sunlight. Storage temperature below 25°C.

PACK SIZE

600 ml Sausage

CONSUMPTION

Joint Width (mm)	5	10	15	20	25
Joint Depth (mm)	5	8	10	12	15
Coverage (per 600 ml)	24 m	11 m	7 m	5 m	4 m

*Coverage values are approximate and may vary depending on substrate and joint conditions.

IMPORTANT NOTE

Do not apply on wet or frozen surfaces. Do not apply when rain is expected within 24 hours. Not suitable for structural glazing.

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CHEMICAL RESISTANCE

Acids	Resistance
10% Acetic Acid	+
25% Acetic Acid	-
10% Hydrochloric Acid (pH 3)	+
25% Hydrochloric Acid	-
10% Sulfuric Acid	+
25% Sulfuric Acid	+
10% Nitric Acid	-

Bases	Resistance
10% Soda (pH 8)	+
25% Soda	-
10% Potassium Chlorate	+
25% Potassium Chlorate	-

Miscellaneous	Resistance
Water	++
Sea Water	++
Brine	-

OIL & SOLVENTS	RESISTANCE
Engine Oil	++
Methanol	-
Formol	-
Ethanol	-
Glycol	++
Acetone	-
MEK	-
Ethyl Acetate	-
Toluene	-
Xylene	-
Chloric Solvents	-
Aliphatic Solvents	+
Petrol	-

++ Excellent Resistance + Good Resistance - Poor Resistance

APPLICABLE STANDARDS

- ASTM C 920.
- Meets SNJF standard (class 25 E).
- Meets class 25 LM construction sealant (type F) according to ISO 11600 standard.
- Doesn't stain the marble or granite stone (tests according to Standard ASTM C 1248-93).

DISCLAIMER

The information provided in this Technical Data Sheet is based on our testing and practical experience. However, since site conditions and application methods are beyond our control, no warranty is given or implied regarding the accuracy or suitability of the information for any particular use. The user must determine the suitability of the product for its intended application.

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