



HIGH TECH JOINT SEALANT

Two Component, Polyurethane Sealant

DESCRIPTION

HIGH TECH JOINT SEALANT is a two component polyurethane sealant that cures with atmospheric moisture to form a durable, flexible seal. Its excellent elastomeric seal, it provides excellent adhesion to most construction materials and offers exceptional resistance to weathering, UV rays, water and many chemicals. It is ideal for a wide range of sealing and waterproofing applications.

PROPERTIES

- Excellent adhesion to most substrates.
- 50% movement accommodation.
- Weather and UV resistant.
- Paintable after full cure.
- Non-shrinking and non-sagging.
- Resistant to weather, chemicals and aging.
- Easy to apply and tool.
- Suitable for interior and exterior use.

RECOMMENDED USES

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

TECHNICAL DATA

Chemical Base	Two Component Polyurethane
Mixing Ratio (by volume)	Component A : Component B = 2 : 1
Appearance	Thixotropic Paste
Color	Grey, White, Beige, Brown, Black
Specific Gravity (mixed)	1.20 ± 0.05
Skin Formation Time (23°C, 50% RH)	50 – 60 min
Cure Rate (23°C, 50% RH)	2 – 3 mm / 24 h
Shore A Hardness (after 7 days)	25 – 35
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



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.

MIXING

Add Component B to Component A in the specified mixing ratio (2 : 1 by volume). Mix thoroughly using a slow speed drill and clean paddle for 3 – 5 minutes to obtain a uniform color and consistency. Do not mix more material than can be used within the pot life.

APPLICATION

Insert the mixed sealant 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.

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 may vary depending on joint dimensions and application.

PACK SIZE

600 ml Cartridge

POT LIFE (23°C, 50% RH)

Temperature	Working Time
40 °C	~ 1 hour
23 °C	1½ – 2½ hours
10 °C	~ 3 hours

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.

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.





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	-
20% Potassium Chlorate	+
25% Potassium Chlorate	-

Miscellaneous	
Water	++
Sea Water	++
Brine	-

++ Excellent Resistance + Good Resistance - Poor Resistance

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

APPLICABLE STANDARDS

- ASTM C 920.
- Meets S.N.J.F 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.

