

Sealants / Polyurethane + Tar Sealants

POLAN® 980 2K

Coal Tar Modified Polyurethane Based Sealant and Waterproofing Material

DESCRIPTION

Coal tar modified polyurethane based, double component, elastomeric, **cold applied** self-levelling sealant and waterproofing material which has high mechanical and chemical resistance. It is **resistant to jet fuels and oils**.

APPLICATION AREAS

- Dynamic horizontal dilatation joints, for sealing and filling,
- Filling the ground joints in places exposed to chemical and industrial wastes, such as airports, garages and gas stations,
- Places where infrastructural work is needed, such as tunnels, bridges, canals, ports and highways,
- Warehouse, garage, hangar and loading areas,
- Bricks, concrete or grating covers of the pavements,
- As a joint sealant in balconies and terraces.

TECHNICAL PROPERTIES

Appearance	Black colored flowable coal tar modified polyurethane sealant
Mixture Density	1.25 ± 0.05 g/cm ³
Application Temperature	Between +5°C and +30°C
Solid Content Ratio	96%
Elastic Recovery	80%
Tensile Strength	0.16 MPa (+23°C); 0.22 MPa (-20°C)
Hardness (Shore A)	25 ± 5
Change in Mass and Volume After Immersion in Test Fuels	Maximum 1% with jet fuel (after immersion in test fuels)
Shock Temperature Resistance	+120°C
Pot Life of Mixture	30 – 45 minutes (20°C)
Drying Time	Tack-Free: 6 hours (20°C) Complete Drying: 24 hours Test: 7 days
Service Temperature	Between -30°C / +80°C

ADVANTAGES

- Highly resistant to oil, petroleum, jet fuel and various chemicals, self-levelling.
- Cold applied, easy and fast to apply.
- Resistant to UV and abrasion.
- Not affected by dilatation movements and different weather conditions. Resistant to aging.
- Has high adhesion properties to the surface where it is applied (concrete, metal and glass etc.)
- Highly elastic, does not lose its elasticity between -30°C and +80°C
- Ideal to use where hot applied joint fillers cannot be used.

CONSUMPTION

Varies depending on the joint depth and width.

Theoretical consumption:

Joint width (mm) x joint depth (mm) x material density = consumption/running meter.

PACKAGING

Component A: 4.3 kg tin cans

Component B: 0.7 kg tin cans

APPLICATION**PREPARATION OF THE SURFACE**

- The width of the joints where POLAN 980 2K will be used should be between 6 – 40 mm and the application depth should be between 6 – 15 mm. The width of the joints must not be less than four times the estimated mobility and 6 mm.
- Use **FIXA Polyethylene Backer Rod** during application. The thickness of the rod should be 20% more than the joint width.
- The surface must be clear of materials that prevent adhesion such as dust, oil, tar, paint, silicone, curing material, detergent and mold release agents, if possible, apply compressed air to the joint gap.
- The surface must be moisture free and dry.
- Mask the surface to be protected with a masking tape.
- POLAN 980 2K adheres to very on clean and dry joints without a primer. However, if necessary, it is recommended to prime the surface with **POLAN A Polyurethane Floor Primer** before the application.

MIXTURE

- POLAN 980 2K is packaged as two components in appropriate quantities. Add 0.7 kg of Component B (hardener) to 4.3 kg of Component A (tar modified polyurethane resin). Mix with an electric, low speed (200 - 400 rpm), powerful mixer for 3 - 5 minutes.
- Keep the mixer at a sufficient depth in the package so that no air can enter the mixture.

APPLICATION

- Fill the mixture with a container suitable for the joint width or a mouth-filled mastic gun in a way to prevent the formation of air gaps.
- If the slope of the joints is more than 2%, place vertical barrier bars with intervals to reduce the flow. When the material applied between the bars partially hardens, remove the bars and fill the gaps formed.
- Immediately after the application, smoothen the surface by pressing with a spatula. This process will ensure that POLAN 980 2K adheres better and a better filling image appears.
- After the application, remove the masking tape. Clean the uncured product smeared around with cellulosic thinner. After curing is complete, it is only possible to clean it mechanically.
- Depending on weather conditions, the pot life of the product is 20 – 30 minutes. Consume the mixture within maximum 30 minutes.
- Protect the area where the product is applied against water for 6 – 8 hours and against oils for 7 days.

CAUTION

- Avoid application at temperatures below +5°C and above +35°C.
- The curing of the product depends on the ambient and ground temperature and relative humidity.
- The application surface must not be damp at all. Otherwise, the product will foam.
- Avoid application in areas that are frozen, at risk of freezing within 24 hours, or in areas open to direct sun and wind.
- Before POLAN 980 2K is cured, avoid contact with solvents, alcohol and cleaning materials that may damage the chemical structure of the material.
- After the product is opened, it should be consumed completely.

SHELF LIFE

Expires in 12 months. Store unopened packages between +10°C and 30°C in a dry, cool and damp-free area protected from sun light.

HEALTH AND SAFETY

It contains isocyanate. As with all chemical products, avoid contact with food products, skin, eyes and mouth during use and storage. During the application, use work clothes, protective gloves and glasses in accordance with the occupational and worker health rules. Consult a doctor if accidentally swallowed. In case of contact with skin, wash with plenty of water. Do not smoke, do not make a fire nor use tools (fan etc.) that can produce sparks since it contains flammable materials. Because it contains low amount of solvent, ventilation must be forced and health precautions should be taken for indoor use. Do not leave the cover open. Store out of the reach of children.

The application instructions and technical values given for the products have been obtained in accordance with our tests and experiences in accordance with international standards at 23±2°C temperature and 50±5% relative humidity conditions. These values may vary depending on ambient conditions. High temperatures shorten the times, low temperatures lengthen them. Before starting the application, the user should test whether the product is suitable for the application and purpose. FIXA Construction Chemicals Ltd. is not responsible. This Technical Data Sheet remains valid until the next revision is published. FIXA reserves the right to change the values specified in this Technical Data Sheet, provided that the new version is published. It is the user's responsibility to check that the document is up-to-date. Please contact our sales department for more information.