

POLYTAR 99H

Dual-component elastomeric material for sealing joints and cracks in concrete surfaces (resistant to fuels, oils and jet fuel).

Product description

POLYTAR 99H is a polysulphide-based dual-component elastomeric sealing material for cold application.

Product Uses

Intended for sealing working junctions in concrete buildings, bridges, tanks, concrete roads, factory floors, fuel and diesel tanks, airports, etc. which are under harsh climate conditions and are exposed to fuel. Designed for seams with a fluctuation rate of up to 25%.

POLYTAR 99H is approved for sealing fuel spilling containers by the Ministry of Environmental Protection.

Packaging

18 kg Bucket
Hardner, can 1.6 kg



Advantages

- ✓ resistance to fuels.
- ✓ Resistant to harsh weather conditions.
- ✓ Self-leveling.
- ✓ Resistant to heavy mechanical load.
- ✓ Does not shrink.
- ✓ Resistant to many chemicals.

Technical Specifications (tested according to standard SS-S-200-E)

Shade	Black
Adhesion	POLYTAR 99H has excellent adhesive capacity across a wide temperature range (-30°C +90°C) for concrete, glass, aluminum and steel
Initial hardening	Approx. 5-6 hours depending on the weather conditions. When POLYTAR 99H used as a sealant for joints in concrete roads, it is possible to allow vehicles to pass over the sealant after about 12 hours and after spreading coarse sand over the crack repair
Final hardening	24 hours under normal weather conditions (<24°C), duration may vary depending on the weather conditions
Chemical Resistance	Excellent for weak bases, weak acids, various solvents as well as jet fuel and oils
Pot Life	After mixing the hardener/foundation, the sealant can be used within 2-3 hours
Specific weight	1.3 g/cm ³
Viscosity	cPs 30,000
Resistance to jet fuel	The material is not melted or affected when it comes into contact with jet fuel
Adhesion to concrete	Adhesion to concrete is maintained at a temperature of -18°C, even after immersion in low-temperature distilled water and jet fuel
Leaks	There is no leakage of POLYTAR 99H at 90°C for 5 hours at an angle of 75°
Maximum elongation	500%
Flame resistance	After 2 minutes at a temperature of 260 °C there is no change in the properties of the sealant
Storage resistance	6 months in sealed packaging
Application temperature	5-40°C

Consumption for sealing of seams in grams per meter of seam length

	Seam width					
	mm	5	10	15	20	25
Seam Length	5	33	65			
	10		130	195	260	
	15			295	390	490
	20				520	650
	25					815

Method of use

Surface Preparation

- ✓ The joints and cracks intended for sealing will be cleaned with sand blasting and then with oil-free compressed air and/or a vacuum cleaner. The cleaning includes, among other things, the removal of the old sealing and filling materials.
- ✓ Clean any dirt such as dust, sand, pebbles, oils, curing materials, cement water that has hardened and any other foreign material. In any case, make sure that the joints and cracks are open and clean to the required depth. If it is not possible to achieve the necessary cleanliness with the method described above, additional measures must be taken such as sawing, brushing, washing with a suitable detergent until all the dirt, debris, curing material and cement water are removed.
- ✓ All loose and weak parts of the asphalt / concrete must be removed. If necessary, conical grinding must be performed on the sides.
- ✓ The optimal ratio between the width and depth of the joint and/or crack will be determined according to the table below:

Type of surface intended for sealing	Joint width	Joint depth 1
A. Metal, glass, non-porous surfaces	6mm (the minimum suggested)	6mm
B. Concrete, bricks	6-12mm	6-12mm
	12-25 mm	12-25 mm
	5-2.5 cm	12-25 mm
	Over 5 cm	Consult the company

Foundation layer - Primer

- ✓ Use primer 99 to improve adhesion to the crack walls when applying to concrete joints.

Method of application

Preparing the sealant for use

- ✓ Open the container containing the POLYTAR 99H base and stir well.
- ✓ Open the can containing the POLYTAR 99H hardener and mix until a homogeneous mixture is obtained without sedimentation.
- ✓ Pour the entire contents of the hardener into the base while continuously mixing. The mixing can be done both manually and using a suitable electric mixer. Since the effective hardening of the compound is dependent on perfect mixing, the base + hardener mixture must be mixed for 10-5 minutes before use, until perfect mixing is obtained.

Pouring & filling the joint/junction

- ✓ Before filling the joint and after cleaning, coat the sides of the joint with Primer 99, the drying time is about 2-4 hours (according to the weather conditions in the area).
- ✓ A suitable seam backing must be inserted to obtain the geometry of the filling material according to the planner's requirements.
- ✓ Application of POLYTAR 99H into the joint can be done using a motorized casting machine or by manual means such as jugs.
- ✓ A joint that is 10 mm wide or less should be filled using pressure injection equipment.
- ✓ The height of the joint filling depends on the season and the average temperature.
- ✓ In the summer, the expansion joint should be filled slightly above its upper edge. The shrinkage of the concrete at night and/or during the winter will cause the sealing material to stretch so that its surface is level with the concrete.

Method of use - continued

Surface Preparation

- ✓ In winter, fill a little below the edge of the joint so that when the concrete expands at high temperatures, the material will press upwards and align with the concrete level.
- ✓ To use the material as part of sealing systems resistant to fuels and oils, special specifications must be obtained from the sealing consultant and/or the material manufacturer.

Remarks

- ✓ The material should be used and heated in a well ventilated area.
- ✓ Clean the tools using PAZKAR's mineral turpentine.
- ✓ Store in a cool, shaded and ventilated place.
- ✓ When sealing fuel tanks, special specifications must be obtained from the designer or the manufacturer of the material.

Safety instructions

- ✓ **Not for human consumption.**
- ✓ Before using the product, you should read the safety instructions and warnings that appear on the product label and the safety data sheet (MSDS) which can be obtained from Pazkar Ltd.

For Safety detailed instructions please refer to Pazkar's safety data sheets (MSDS)

Warranty

Pazkar's products are manufactured to rigid standards of quality. Pazkar makes no representations or warranties with respect to the accuracy or completeness of the contents of this publication and reserves the right to make changes to specifications and product descriptions at any time without notice. Users must always refer to the most recent issue of the local product data publication for the product concerned. The user of the product must test the product's suitability for the intended application and purpose. Due to differences in materials, substrates and site conditions Pazkar assumes no liability whatsoever, and disclaims any express or implied warranty, relating to its products including but not limited to, the implied warranty of merchantability, fitness for a particular purpose, nor any liability arising from any legal relationship. Subject to our terms and conditions, Pazkar grants a product warranty certificate for specific products, for any further information please contact us at info@pazkar.co.il. All orders are accepted subject to our current inventory, terms and conditions of sale and delivery.