



MAXFLEX® 900

TWO COMPONENT POLYSULPHIDE SEALANT FOR PERMANENT IMMERSION AND HIGH CHEMICAL RESISTANCE

DESCRIPTION

Dual-component polysulphide polymer sealant.

APPLICATIONS

- Sealing of all kinds of construction joints, glazing, and in general, where high performance sealing is required.
- Sealing of heavy and light prefabs.
- Concrete-brick joints.
- Water tanks.
- Channels, irrigation ditches, traps.
- Immersion joints.
- Concrete-surface joints.

PROPERTIES

Dual-component sealant, which once mixed react chemically in order to produce elastomeric features material, of low modulus, and good adhesiveness to most materials commonly used in construction such as: concrete, wood, metal, glass, ceramics, etc. It has high mechanical, chemical and weather resistance.

SPECIFICATIONS

MAXFLEX 900 meets the following international standards:

DIN 18540 - 1973
ASTM 920-79
US TT-S-227 a-b+c
BS 4254

APPLICATION INSTRUCTIONS

Dimension. The joints width must be at least 4 times larger than the foreseen movement. Sealing depth must be half the width of the joint with the exception of under 15 mm. joints, where the depth must be 8 mm.

Formation of joints. It is necessary that a filler material is used in order to avoid adhesion of MAXFLEX 900 to the bottom of the joint which would exercise unnecessary tension of the sealant. Meanwhile, regulation of its depth is achieved as well as greater yields. The material to be used must be inert, mechanically stable, homogeneous, corrosion-resistant, and must not adhere to either the sealant or contiguous materials. A particularly recommendable product is closed-cell polyethylene foam, extruded in regular section strips, such as our MAXCEL.

Treatment of the surfaces. The surfaces to be sealed must be clean and dry. If necessary, cleaning with non-grease solvent such as acetone is recommended. For porous materials, it is essential that a primer such as our PRIMER 900 is used. Any material not known by the user in terms of adhesiveness, must first be tested or consulted with our technical department.

Procedure. MAXFLEX 900 is a dual-component sealant supplied in a single container, in appropriate proportions, and unmixed.

The mixture must be made immediately before application by means of a low-revolution electric drill (200-400) equipped with a fork-shaped whisk. Beating must be done with circular motion in both directions coming close to the container walls and bottom, avoiding, as far as possible, trapping of air. This operation should be continued until the colour of the mixture is homogeneous. Excessive beating will heat up the product, thus reducing time available for its application. The mixed product may be rebottled in cartridges by using our cartridge loader. Application should be effected by means of our P-2 Gun with a B-1 Nozzle levelled to the required size, or by means of a spatula. In order to avoid messing the edges of the joint, it may be protected with masking tape, which should be removed before the product reticulates. For a better finish, the sealant may be smoothed with a spatula.

Yield. The following formula is an approximate guideline in order to calculate foreseen yield for a can of MAXFLEX 900.

$$L = 2500 / (A \times D)$$

Where:

L = Length of sealant in meters obtained per can of MAXFLEX 900

A = Width of the joint in mm.

D = Depth of the joint in mm.

Further treatment. MAXFLEX 900, in general, requires no protection. However, for joints in chlorinated swimming pools, it should be protected with 2-3 coats of chlorinated rubber paint.

Note. MAXFLEX 900 polymerises as a result of a chemical reaction between the two components. Temperature and humidity determine the speed of this reaction, which in like manner affect the time available for product application. As a general rule, increased temperatures mean less application time available and vice-versa. For this reason, MAXFLEX 900 should not be applied at temperatures below +5°C.

CLEANING

With the product not yet reticulated, the tools may be cleaned with xylene. Once the materials has hardened, it may only be removed by mechanical means.

NEVER USE BLOWTORCHES FOR CLEANING SINCE TOXIC GASES ARE PRODUCED.

AUXILIARY MATERIALS

MAXCEL Expanded polyethylene foam backing rod .

PRIMER 900 Primer for porous materials.

P-2 Gun: Cartridge-application gun.

Cartridges: Cartridge/piston ensemble for rebottling from can.

B-1 Nozzle: Special nozzle adaptable to the P-2 Cartridge/Gun ensemble.

Whisk: Fork-shaped cartridge loader device designed for successive loading of 5 cartridges.

TECHNICAL DATA

NON-CURED MAXFLEX 900		
PART A)		
Appearance	Homogeneous creamy paste	
Slump resistance NF P 85501	0	Mm.
Solids (2 hours at 110°C)	100	%
PART B)		
Appearance	Brown homogeneous creamy paste	
Solids (2 hours at 110°C)	100	%
PART A) x B) mixed		
Appearance	Homogeneous creamy paste	
Slump resistance NF P 85501	0	mm.
Solids (2 hours at 110°C)	100	%
Application time (at 23°C)	2-4 hours	
Application temperature	5-50	°C

CURED MAXFLEX 900 (4 weeks at 23 °C and 55% H.R.)		
Appearance	Similar to rubber	
Shore hardness A DIN 53505	23	--
Elastic recovery NF P 85506	85	%
Elasticity modulus 100% DIN 53504	0.18	MPa
Traction resistance DIN 53504	0.50	MPa
Elongation at break DIN 53504	450/550	%
In-service joint movement	25	%
In-service temperature resistance	-30/80	°C

Chemical resistance	
Water, soapy water, brine	Excellent
Inorganic diluted acids and alkalis	Very good
Mineral oils and grease	Very good
Oil, fuel, hydrocarbons	Very good
Other organic products	Consult

PACKAGING

2.5 litre single container set.

STORAGE

Keep in a cool, dry place:

Lifetime: 18 months in original sealed containers.

COLOUR

Grey.

HEALTH AND SAFETY

The MAXFLEX 900 catalyst or curing agent contains heavyweight metal components. Avoid ingestion or direct contact with skin. Wash hands before eating or smoking. Use protective gloves. Once cured, can be used in water tanks and swimming pools.

PRIMER 900 is inflammable. Do not smoke or use unprotected flame during application. Avoid prolonged inhalation of vapours and contact with skin. In case splashing into eyes, rinse thoroughly with plenty of water and, if necessary, see a doctor. Use gloves, and in case of splashes, wash with industrial detergent while the product is still fresh.

NEVER USE BLOWTORCHES FOR CLEANING SINCE TOXIC GASES ARE PRODUCED. DO NOT WASH HANDS WITH SOLVENTS.

GUARANTEE

The information contained in this leaflet is based on our experience and technical knowledge, obtained through laboratory testing and from bibliographic material. DRIZORO reserves the right to introduce changes without prior notice. Any use of this data beyond the purposes expressly specified in the leaflet will not be the Company's responsibility unless authorised by us. We shall not accept responsibility exceeding the value of the purchased product.



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