



PU-45

Polyurethane Sealant

DATA SHEET
05/2019

DESCRIPTION:

One component, high modulus polyurethane sealant, cured at air temperature in contact with humidity.

PROPERTIES:

- Monocomponent polyurethane.
- Non-corrosive to metals and applicable on alkaline surfaces (concrete, asbestos-cement, marble, etc.).
- Good adherence over a wide range of substrates usually used in modern constructions.
- It does not shrink.
- **Paint may be applied on it***. It does not contaminate further coats of paint. (*See Remarks)
- Can be used to fill cracks and fissures.
- Highly efficient for filling most of the hollows.
- Absorb vibrations.
- Capacity to absorb strong efforts.

APPLICATIONS:

General bonding and sealing in industry and construction:

- Shipbuilding, automotive and general industry
- Bodywork, caravans and containers construction and repair.
- Bonding of constructive and decorative elements, both indoors and outdoors: tiles, baseboards, skirting boards, etc.
- Elastic bonding of indoor panels of different materials: Aluminium or aluminium-composite, ceramic, fibrocement, wood, metallic, etc.
- Sealing of contraction joints in industrial concrete floors.

TECHNICAL FEATURES

PU-45 uncured:			PU-45, cured (4 weeks at 23°C and 55% H.R.)		
Appearance:	Homogeneous creamy paste.		Hardness (ISO 868):	Shore A	45 - 55
Slump resistance (ISO 7390)	mm	0	Modulus100% (ISO 37):	MPa	1 – 1.2
Tack free:	Minutes	< 40	Tensile strength (ISO 37):	MPa	2.5 – 3.5
Curing rate at 23°C and 55% h.r.:	mm/day	3	Elongation at break (ISO 37):	%	> 500
Application Temperature:	°C	+5 to +40	Movement accommodation factor:	%	25
			Temperature Range in service:	°C	-40 to + 80



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CHEMICAL RESISTANCE:

Water, soapy water, brine:	good.
Gasoline, mineral oil, grease:	medium
Organic solvents, inorganic diluted acids and alkalis:	medium

INSTRUCTIONS:

Preparing the surface:

The surfaces must be clean and dry. If necessary, we recommend cleaning with a non-grease solvent, for example acetone.

Working technique:

Cut the end of the cartridge's seal, screw on the nozzle and bevel cut to the required section. Insert the ensemble in the application gun. To seal or to repair apply a string of **PU-45** in the joint.

The bond pieces, apply a string of **PU-45** on one of the supports and immediately push the other one on it. In some cases additional supports should be used. Those can then be removed after 24 - 48 hours depending on the design and the temperature.

Temperature application must be between 5 and 40 °C and the product temperature must not be lower than 10 °C. To avoid extrusion problems, when it was necessary, cartridges must be heated until 15 or 20 °C in a water bath.

Yield:

The following formula is an approximate guideline to calculate foreseen yield for a standard cartridge of **PU-45**:

$$L = \frac{V}{A \times D}$$

Where:

L = Length of sealant in metres obtained per cartridge.

V = Volume of the cartridge.

A = Width of the joint in mm.

D = Depth of the joint in mm.

STORAGE:

Keep in a cool, dry place.

Lifetime: 12 months in unopened packing.

COLOURS:

White Black Grey

REMARKS:

- **PU-45** may be overpainted, however due to the large number of paints and varnishes available we strongly suggest a compatibility test before application. The drying time of alkyd resin based paints may increase.
- Do not cure in the presence of curing silicones.
- Avoid contact with alcohol and other solvent cleaners during cure.
- Not suitable for permanent water immersion.
- Avoid exposure to high levels of chlorine.
- Do not apply when moisture vapor transmission exists since this can cause bubbling within the sealant.
- Light color tends to yellow slightly when exposed to ultraviolet rays.
- Do not use in contact with bituminous/asphaltic materials.
- Color variation may occur, due to chemical composition, high temperature, ultraviolet radiation (especially in white). A variation in color does not influence the mechanical properties and performance of the product.
- Before using on natural stone, contact the Technical Department.

PRESENTATION:

In 280 cc aluminium cartridges. 12 cartridge boxes.

In 600 ml aluminium bags. 12 aluminium bag boxes.

CLEANING:

Fresh product is easily removed with an organic solvent. When cured it can be removed by mechanical means only.

HEALTH & SAFETY:

This product contains isocyanates. Follow the manufacturer's Instructions. Avoid contact with eyes and skin. Keep out of reach of children.

Rubber resulting after curing can be handled without risk.

Use gloves, and in case of splashing, wash with industrial detergent when the product is still fresh.

DO NOT WASH HANDS WITH SOLVENTS.

For more information, request Safety Data Sheet.

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