



# PC-Sealant® PU FS

**Fire resistant, polyurethane, 1-part, moisture-curing, elastic joint sealant**

PC-Sealant® PU FS is an advanced one-component, gun-grade, Non-sag, moisture-cure polyurethane sealant designed to skin and cure rapidly. This high-performance product is designed with outstanding UV resistance and long-term durability. The product is ASTM E84 CLASS A Rated, a standard test method for surface burning characteristics of building materials

## FEATURES

- Paintable.
- Low VOC.
- Odourless.
- UV resistant/ fast curing.
- Excellent adhesion without priming.
- Tested to ASTM E84 (Class A Rating).
- Highly resistant to sea water, diluted acids, and alkalis.

## EXPANSION JOINT DESIGN

When applied according to accepted architectural and engineering practices, PC-Sealant® PU FS is suitable for use in any joint. The joint width must be at least four times the anticipated movement, and not less than 5mm. In the case of an expansion joint, the depth (D) of the sealant should match the width (W) of joints that are less than 10mm wide. For wider joints, the width-to-depth ratio should be 2:1. Additionally, PC-Sealant® PU FS should only be used on joints with a maximum width of 25mm.

## YIELD

The following formula is an approximate guideline to calculate foreseen yield for a standard 600ml sausage of PC-Sealant® PU FS.

$$L = 600 / (W \times D)$$

Where: L = Length of sealant in meters obtained per cartridge.

D = Depth of the joint in mm

W = Width of the joint in mm

## JOINT BACKING

To control sealant depth and maintain a secure sealant-to-joint wall bond while tooling, it's advisable to use closed-cell polyethylene backer rods as joint backing. In cases where the joint depth is not sufficient for backer rod use, an adhesive-backed polyethylene tape (bond breaker tape) should be utilized to prevent three-sided adhesion. It's imperative that all backing materials are dry at the time of sealant application, and it's recommended to steer clear of sharp tools during the process.

## METER PER 600 ML

Joint Width (mm)	10	12	15	20	25
Joint Depth (mm)	6	8	8	10	12
Joint Length (m)/600 ml	10	6.2	5	3	2

## USES

- Sealant is designed to seal concrete construction joints and expansion joints.
- To seal waterproof rivet seams and roof rails.
- To seal perimeter joints around windows and doors.
- Sealing corner moldings, fabricated roof-lap seams, bumper assemblies and body-to-cab joints in motor homes. Sealing door hinges, skylights and potholes.
- Sealing Air conditioning equipment, flashing and gutters.

## ADVANTAGES

- Accommodates ±25% joint movement .
- Permanently flexible, excellent weather ability.
- Easy to gun, Easy to tool.
- Cures to a tough, durable, elastic consistency with excellent cut and tear resistance.
- non-sticky after cure.

## STANDARDS

Meets or exceeds the requirements of the following specifications: ASTM E84 CLASS A and ASTM C 920 Type S, Grade NS, Class 25.

FLAME SPREAD INDEX (FSI)	15
SMOKE DEVELOPED INDEX (SDI)	25

## TECHNICAL DATA

Physical Properties	Test Method	Typical Value
Specific Gravity @ 25 oC, g/ml	ASTM D1475	1.15±0.02
Skin over time @ 25 oC, Minutes	--	2-5
Tack Free Time @ 25 oC, Minutes	ASTM C679	5-15
Flow (sag or slump)	ASTM C639	No-Sag
Shrinkage,%	--	<5
VOC, (g/L)	USEPA Method 24	<5
Tensile Strength, N/mm <sup>2</sup>	ASTM D412	1.13
Elongation at break, %	ASTM D412	>300%
Hardness : Shore A	ASTM D2240	30±3
Joint Movement Capability, %	ASTM C920	±25
Peel Strength on concrete, N	ASTM C794	>30
Effects of Accelerated Ageing @ 300 hrs. UV exposure	ASTM C793	No deterioration
Application Temperature (°C)	-	+5 to +40

## COLORS

White, Off-white, Grey, and Black. For other colors please contact the local triton representative.

## SURFACE PREPARATION

In preparation for the application of sealant, the surfaces must meet certain criteria. Firstly, they should be clean, dry, and structurally sound. Additionally, any loose particles such as dust, loose mortar, laitance, paints, or other debris must be removed. This can be achieved through wire brushing, sanding, or solvent washing depending on the type of contamination. Triton suggests that surface temperatures should not exceed 40°C when applying the sealant.

## PRIMING

**PC-Sealant®PU FS** typically forms a strong bond with most standard construction substrates, obviating the necessity for primers. But, due to the diverse nature of substrate finishes, it may be necessary to consider using **PC-Prime® PA**. A mockup or on-site adhesion test can determine the requirement for a primer, based on the actual materials employed in the project.

## APPLICATION

**PC-Sealant®PU FS** is easy to apply with conventional caulking equipment. Ensure that the backer rod is friction fitted properly. Mask the sides of the joint with masking tape prior to filling for a cleaner finish. Fill the joint completely with a proper width-to-depth ratio and tool to ensure intimate contact of sealant with joint walls. Dry tooling is always preferred, although xylene can be used in limited amounts to slick the spatula if needed following the initial dry tooling.

## CLEAN UP

To ensure a clean finish, it's important to remove any excess sealant and smears around the joint interface before the sealant cures. This can be achieved by using xylene or mineral spirits. Additionally, any utensils used in the tooling process can also be cleaned using xylene or mineral spirits.

## FOR OPTIMUM PERFORMANCE

- When using in cool or cold weather, it is recommended to store the container at room temperature for a minimum of 24 hours before application.
- It's essential to acknowledge that applying rigid paints or coatings over flexible sealants may result in a loss of adhesion of the paint or coating, due to the potential movement of the sealant. To ensure compatibility and adhesion, it's necessary for the applicator of the paint or coating to conduct on-site testing as per accepted industry standards and practices.
- The user bears the responsibility for proper application. Triton personnel's on-site visits aim to provide technical recommendations only and not to supervise or provide quality control on the jobsite.

## PACKAGING

300 ml cartridge, 24 cartridges per carton. 600ml sausage, 20 sausages per carton.

## CLEANING

- Do not apply over damp or contaminated surfaces.
- Do not use **PC-Sealant®PU FS** as a structural (load - transferring) sealant.

## STORAGE AND SHELF LIFE

**PC-Sealant®PU FS** has a shelf life of 12 months when stored in tightly closed original casks, in a dry place at a temperature between +5°C and +25°C.

## CURING TIME

**PC-Sealant® PU FS** generally cures at a rate of 2 mm per day at 25°C and 50% relative humidity. Lower temperatures and humidity will extend curing time.

## HEALTH AND SAFETY

It is imperative to utilize this product only in adequately ventilated areas. Take necessary precautions to avoid skin, eye, and clothing contact. After handling, thoroughly wash to avoid any potential health risks. Inhalation of vapors is to be avoided at all costs, and ingestion is strictly prohibited. In case of exceeding the TLV or when used in poorly ventilated spaces, impervious gloves and eye protection should be worn. Please refer to the accompanying Safety Data Sheet (SDS) for additional information on Personal Protective Equipment (PPE) and health hazards.



## PC-WC GLOBAL FZ-LLC

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TECHNICAL DATA SHEET UPDATED IN  
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TDS/PC-SEALENTS PU FS/20

All technical data in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

The information, particularly the recommendations relating to the application and end-use of PC-WC products, are given in good faith based on PC-WC's current knowledge and experience of the products when properly stored, handled and applied under normal conditions by PC-WC recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or any other advice offered. The user must test the product's suitability for the intended application and purpose. PC-WC Global FZ-LLC reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Our technical assistance is at the disposal of the users. Consult the latest update of the technical data sheet on our [website www.pc-wc.com](http://www.pc-wc.com)