



PC-Seal Tape® CS 102

BUTYL RUBBER SEALANT

PC-Seal Tape® CS 102 is a butyl rubber-based sealant specifically designed for joints in precast concrete structures and elements. It is primarily utilized as a waterstop seal for joints in precast components that are installed below ground.

ADVANTAGES

- Provides permanently flexible watertight joints.
- Low to high temperature workability: -1°C to +50°C
- Rugged service temperature: -34°C to +93°C
- Excellent chemical and mechanical adhesion to clean dry surfaces.
- Greater cohesive and adhesive strengths.
- Sealed joints will not shrink, harden or oxidize upon aging.
- Controlled flow resistance for application ease.
- No priming normally necessary. When confronted with difficult installation conditions, such as wet concrete or temperatures below 4°C, priming the concrete will improve the bonding action. Consult PC-WC for the proper primer to meet the application.
- More forgiving than a cured rubber gasket which requires perfectly formed joint areas. Butyl-rubber sealant has the ability to accommodate minor imperfections in the joint area.

AREA OF APPLICATION

- Manholes
- Vaults
- Septic Tanks
- Construction Joints (Non-moving Joints)
- Concrete Pipes
- Box Culverts
- Vertical and Horizontal Joints in Precast Walls

The product's design and performance, its intended use, installation and final confirmation and approval for use, must be provided by the project's Design Engineer and Project Manager.

TECHNICAL DATA

DESCRIPTION	TEST METHOD	REQUIREMENT	RESULT
Colour			Black
Base Material		Butyl Resin	Butyl
Specific Gravity, 25°C	ASTM D71	1.15-1.50	1.25
Ductility, 25°F	ASTM D113	5.0 min.	10
Penetration, cone 25°C, 150 gm, 5 sec.	ASTM D217	50-100mm	55-72 mm
Penetration, cone 0°C, 150 gm, 5 sec.	ASTM D217	40 mm min.	45-69 mm
Flash Point, C.O.C., °C	ASTM D92	171°C min.	225°C
Fire Point, C.O.C., °C	ASTM D92	185°C min.	248°C
Application Temperature, °C			-1°C to +50°C
Service Temperature, °C			-40°C to +110°C

HYDROSTATIC RESISTANCE

PC-Seal Tape® CS 102 meets the hydrostatic performance requirements outlined in ASTM C-990, section 10.1.

(Performance requirement: 10 psi for 10 minutes in a straight alignment, as specified in the in-plant quality control test for joint materials.)

CHEMICAL RESISTANCE

30-Day Immersion Testing:

No visible deterioration observed when exposed to 5% Caustic Potash, 5% Hydrochloric Acid, 5% Sulfuric Acid, and 5% saturated Hydrogen Sulfide.

One-Year Immersion Testing:

No visible deterioration detected when subjected to 5% Formaldehyde, 5% Formic Acid, 5% Sulfuric Acid, 5% Hydrochloric Acid, 5% Sodium Hydroxide, 5% Hydrogen Sulfide, and 5% Potassium Hydroxide.



CHEMICAL COMPOSITIONS

DESCRIPTION	TEST METHOD	REQUIREMENT	RESULT
Hydrocarbon plastic content % by weight	ASTM D297	50% min.	52-56
Inert mineral filler % by weight	AASHTOT111	30% min.	36
Volatile Mater % by weight	ASTM D6	2% max.	1.25
Non-extractable, carbon-based material %			12.8
Recycled Content, % by weight			8.41
Post Consumer:			10.85
Post Industrial:			

INSTALLATIONS

Cleaning and Installing Sealant on Joint Surfaces

- Begin by thoroughly cleaning the joint surface with a stiff bristle brush, ensuring the removal of dirt, debris, flashing, and any concrete high points that may obstruct proper joint fitting.
- If necessary, apply a joint primer, such as PC-Prime CS Adhesive, to enhance the sealant's adhesion. For additional information, please refer to the product brochure for PC-Wc's PC-Prime CS Adhesive.
- Allow the primer to dry before applying the sealant; typically, it will feel tacky or dry to the touch within 15 to 20 minutes.
- When installing the sealant, exert firm pressure using the palm of your hand on the primed surface, avoiding excessive pressing or flattening.
- For joints, create a continuous strand by butt joining the ends of the sealant and kneading them together. Avoid stretching the sealant during installation, and refrain from overlapping at the junctions.
- Once the sealant is applied, refrain from stepping on it or allowing dirt or debris to come into contact with it.
- A minimum compression of 50% is required, with an optimal target exceeding 50%. Please note that it may take 15 to 20 minutes for the sealant to achieve full compression, depending on ambient temperature and the weight of the element being applied.



DIMENSIONS

11mm x 11mm	25mm x 25mm
18mm x 15mm	30mm x 30mm
18mm x 18mm	34mm x 22mm
22mm x 22mm	38mm x 32mm
25mm x 10mm	
44mm x 22mm	
50mm x 15mm	
56mm x 35mm	
59mm x 25mm	

Custom length, additional cross-section sizes and shapes available to suit your project's requirements.

STORAGE & SHELF LIFE

24 month from date of production, if stored properly in original, unopened and undamaged sealed packaging, stored in dry conditions out of direct sunlight at temperatures between +5°C to +40°C, **PC-Seal Tape® CS 102** will not experience any diminished performance.

HEALTH AND SAFETY INFORMATION

For further information or advice on health and safety precautions, safe handling, storage and correct disposal of products, please refer to the most recent product Safety Data Sheet (SDS), which is available upon request.



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TECHNICAL DATA SHEET UPDATED IN
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TDS/PC-SEAL TAPE® CS 102/24

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)