

J-SEAL® CJ-102 BUTYL RUBBER SEALANT



PRODUCT DESCRIPTION

CORKJOINT J-Seal® CJ-102 is a butyl rubber based sealant for use in joints for precast concrete structures and elements.

CORKJOINT J-Seal® CJ-102 used predominantly as a waterstop seal for joints in precast elements that are placed below the ground.



ADVANTAGES

- Provides permanently flexible watertight joints.
- Low to high temperature workability: -1°C to +48°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 **CORKJOINT** 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.



AREAS OF APPLICATION

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

Note: 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.



STANDARDS

J-Seal® CJ-102 meets or exceeds all of the requirements of Federal Specification SS-S-210 (210-A), and ASTM C-990-91.



PHYSICAL PROPERTIES

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	50-100 mm	55-60 mm
Penetration, cone 0°C, 150 gm, 5 sec.	ASTM D217	40 mm min.	40-65 mm
Flash Point, C.O.C., °C	ASTM D92	176°C min.	232°C
Fire Point, C.O.C., °C	ASTM D92	190°C min.	246°C
Application Temperature, °C			-1°C to +50°C
Service Temperature, °C			-34°C to +93°C

Note: The above physical properties are from an independent laboratory test. Material properties can vary between batches of ± 10%.



HYDROSTATIC RESISTANCE

J-Seal® CJ-102 meets the hydrostatic performance requirement as set forth in ASTM C-990 section 10.1.

(Performance requirement: 10psi for 10 minutes in straight alignment – in plant, quality control test for joint materials.)



CHEMICAL RESISTANCE - IMMERSION TESTING

30-Day Immersion Testing:

No visible deterioration when tested in 5% Caustic Potash, 5% Hydrochloric Acid, 5% Sulfuric Acid, and 5% saturated Hydrogen Sulfide.

One Year Immersion Testing:

No visible deterioration when tested in 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.	51 - 55
Inert mineral filler % by weight	AASHTO T111	30% min.	35
Volatile Mater % by weight	ASTM D6	2% max.	1.2
Non-extractable, carbon-based material %			12.8
Recycled Content, % by weight			
Post Consumer:			8.41
Post Industrial:			10.85





INSTALLATION PROCEDURES

The following procedures should be followed for optimum sealant performance.

1. Clean the joint surface with a stiff bristle brush. Remove any dirt, debris, flashing, or concrete high points, which could keep the joint from coming together.
 - If necessary, a joint primer (CJ-200-15 Adhesive) can be applied to improve sealant adhesion. Refer to **CORKJOINT's** CJ-200-15 Adhesive product brochure for further information.
 - When using a primer, allow the primer to dry before placing sealant. The primer will normally be tacky or dry to touch within 15 – 20 minutes.
2. Install the sealant onto the primed surface with a firm force from the palm of your hand. Do not over press or flatten the sealant.
3. For joints, butt join the sealant into one continuous strand by kneading the ends together where they meet. Do not stretch the sealant during installation and do not overlap the sealant at the joint areas.
4. Once the sealant is installed, do not step on or allow dirt or debris to fall on the sealant.
5. A minimum compression of 50% is required. Greater than 50% compression is optimal. It may take 15 – 20 minutes for the sealant to fully compress. This will vary according to the ambient temperature and the weight of the element being applied.

Note: 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.



INSTALLATION PHOTOS



CONCRETE PIPE APPLICATION



BOX CULVERT APPLICATION





PACKAGING & DIMENSIONS

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

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



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.



DISCLAIMER

The information and the recommendations relating to the application and end use of this product are given in good faith and are based on the information provided by the manufacturer of the product and/or the Company's current knowledge and experience in connection with the product when properly stored, handled and applied under normal conditions and no liability of final function at the job site is assumed. In practice, the differences in materials substrates and actual site conditions are such that no warranty in respect of merchantability of or fitness for particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written and/or oral recommendations, or from any other advice offered by the Company. The Company also has no express or implied knowledge of any particular purpose for which the product is required and any such information given will not be taken into account in the supply of this product. No responsibility or liability by the Company will be accepted for misuse, misreading or derivation from recommended guidelines in respect of this product and the user shall determine the suitability of the product for his intended use and assume all risks and liability in connection therewith. The information contained in our brochure may change at any time without notice. Any use of this product, **J-Seal® CJ-102**, in any application should be approved as suitable for use/application by the Design Engineer and Project Manager.

Effective Date: 05 APRIL 2022

CORKJOINT (MALAYSIA) SDN BHD 383102-H

📍 No. 51, Jalan BRP 8/2, Bukit Rahman Putra Industrial Park, 47000 Sungai Buloh, Selangor, MALAYSIA

☎ +603 6148 8010

📠 +603 6148 8020

CORKJOINT (SINGAPORE) PTE LTD 200716724-K

📍 No. 10 Buroh Street #02-26 & 27, West Connect Building, SINGAPORE 627564

☎ +65 6455 9331

📠 +65 6455 8535

