

## J-SEAL® CJ-212

BUTYL RUBBER & POLYOLEFIN BACKED WATERPROOFING AND EXTERIOR JOINT SEALING MEMBRANE



### PRODUCT DESCRIPTION

J-Seal® CJ-212 Butyl Rubber & Polyolefin Backed Waterproofing and Exterior Joint Sealing Membrane is a special and unique system used to seal pre-cast joints in below and above ground structures.



### ADVANTAGES

- Fast and easy to install using CJ-200-15 Adhesive Primer
- Excellent resistance to puncture, tear and abrasions.
- Aggressively bonds to concrete and metal structures.
- Provides a permanent flexible water and soil barrier.
- Will not shrink, harden or oxide upon aging.
- Available in numerous standard sizes.
  - Standard thickness: 1.65mm and 2.50mm
  - Standard widths: 100mm, 150mm, 200mm, 225mm, 300mm, 600mm, 800mm, 900mm and 1200mm
  - Custom widths and lengths available upon request.



### AREAS OF APPLICATION

- Box Culverts
- Underground Concrete Vaults
- Segmented Bridge Structures
- Wastewater Structures and Arched Bridge Structures
- Manholes

*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

- ASTM E-1745
- ASTM C-877
- ASTM C-990



## PHYSICAL PROPERTIES

CLASS C. SPECIFICATION	TEST METHOD	REQUIREMENT	RESULTS
Water Vapor Permeance	ASTM F-1249	0.30 perms, max.	0.045 perms, max.
Tensile Strength	ASTM E-154	13.6 lbs./inch, min.	21.0 lbs./inch, min.
Puncture Resistance	ASTM D-1709	475 grams, min.	864 grams, min.

**ASTM E-1745:** Standard specification for plastic water vapor retarders used in contact with soil or granular fill under concrete slabs.

TYPE III, SPECIFICATION	REQUIREMENT	RESULTS
Backing Bond Element	4 Mil, min. thickness	4 Mil
Butyl Rubber Adhesive	0.03 inch, min. thickness	0.065, min.

**ASTM C-877:** Standard specification for external sealing bands for non-circular concrete sewer, storm drain and culvert pipe.



## CHEMICAL COMPOSITIONS

DESCRIPTION	TEST METHOD	REQUIREMENT	RESULT
Hydrocarbon blend content % by weight	ASTM D-4	50-70%	52, min.
Inert mineral filler % by weight	ASTM C-990	30% min.	45, min.
Volatile Matter % by weight	ASTM C-990	2.0 max.	1.20
Specific Gravity	ASTM C-990	1.15-1.50	1.20-1.25
Ductility, -13.89°C	ASTM D-113	5.0, min.	12, min.
Penetration, cone 25°C, 150 gm. 5 sec.	ASTM D-217	50-120 mm	70-80 mm
Softening point, °C	ASTM D-36	160°C	168°C, min.
Service Temperature, °C			-34 to +82
Application Temperature, °C			-7 to +54

**ASTM C-990:** Standard specification for joints for concrete pipe, manholes and precast box sections using preformed flexible joint sealants.



## INSTALLATION PROCEDURES

1. Clean the concrete surface using a stiff brush or with high pressure air to remove any loose dirt and debris. Remove any exposed high or sharp points on the concrete surface, which may prevent the **J-Seal® CJ-212** membrane from adhering fully to the surface or from being punctured. Any major holes or voids in the concrete surface should be filled with an application of a cement mortar in order to level the surface to the same level as the current concrete surface where the membrane is to be applied.
2. Apply one layer of CJ-200-15 Adhesive Primer onto a clean, dry, concrete surface, using a roller, brush or sprayer. Allow the CJ-200-15 Adhesive Primer to become tacky (approximate drying time is 10-20 minutes @ 30°C and depending upon the current ambient temperature) before installing the **J-Seal® CJ-212** membrane. The dosage rate should be at approximately 5-7 m<sup>2</sup> per litre depending upon the concrete surface condition and porosity. A thorough, even and uniform coverage of the Primer/Adhesive should be applied.





## INSTALLATION PROCEDURES (continued)

- To apply **J-Seal® CJ-212** membrane to the joint, remove the release paper from the adhesive side of the membrane and apply the membrane onto the primed surface with the butyl section being applied directly on to the concrete primed surface. Continue around the joint by removing the release paper as the **J-Seal® CJ-212** membrane is unrolled.
- Press the entire surface of **J-Seal® CJ-212** membrane firmly into place using a medium or hard surface roller or by hand, to ensure full bonding of the membrane is achieved and to make sure that all air pockets are removed. Around edges, corners and difficult locations that cannot be applied with a roller, use a firm hand or finger pressure to apply the membrane.
- Where joining two sections, or where two ends meet together, provide an overlap of approximately 50mm and firmly press the overlapping strip onto the end of the underlying membrane to seal the joint.



## INSTALLATION PHOTOS



## LIMITATIONS

J-Seal® CJ-212 is not recommended for use in expansion joints or joints that move.



## PACKAGING & DIMENSIONS

- J-Seal® CJ-212 Membrane

THICKNESS 1.65MM	THICKNESS 2.50MM
1200mm (wide) x 15.24m (long) roll	1200mm (wide) x 8.00m (long) roll
900mm (wide) x 15.24m (long) roll	800mm (wide) x 10.60m (long) roll
600mm (wide) x 15.24m (long) roll	600mm (wide) x 10.60m (long) roll
300mm (wide) x 15.24m (long) roll	300mm (wide) x 15.24m (long) roll
225mm (wide) x 15.24m (long) roll	225mm (wide) x 15.24m (long) roll
200mm (wide) x 15.24m (long) roll	200mm (wide) x 15.24m (long) roll
150mm (wide) x 15.24m (long) roll	150mm (wide) x 15.24m (long) roll
100mm (wide) x 15.24m (long) roll	100mm (wide) x 15.24m (long) roll

- CJ-200-15 Adhesive Primer
  - 1 litre, 3.8 litres and 19 litres pails

*Note: Coverage approximately 5-7 m<sup>2</sup> per litre depending upon the concrete surface condition and porosity.*





## WRITTEN SPECIFICATION

The butyl rubber & polyolefin backed waterproofing and exterior joint sealing membrane shall be **J-Seal® CJ-212** as supplied by **CORKJOINT**. The membrane is to be installed in accordance to the manufacturer's required installation guidelines, and to the Design Engineer's specification.



## 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-212**, in any application should be approved as suitable for use/application by the Design Engineer and Project Manager.

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