



**CONSEAL™**  
Concrete Sealants INC.

**CS-75**

Water-Based Adhesive Surface Primer

**APPLICATIONS**

Enhances the bonding between preformed sealants and concrete surfaces aiding in the installation process. Stops water penetration of the concrete. Conveniently applied at the job site.

**PHYSICAL PROPERTIES**

Color:	Bright Orange
% Solids:	20% minimum
Solvent Type:	Water
Flash Point:	200°F minimum
Weight/Gallon:	8.0 Pounds
Dry Time @ 77°F (25°C):	10 minutes
Dry Time @ 40°F (4°C):	60 minutes
Clean Up:	Soap and Water
Coverage Per Gallon:	Approx. 400 sq ft on wet cast concrete Coverage diminishes on dry cast concrete
Appropriate Substrates:	Concrete, Plastic, Metal
Min. Storage Temperature:	40°F (4°C) Product should not be allowed to freeze
Min. Application Temperature:	20°F (-7°C)
Surface When Dry:	Tacky

**LIMITED WARRANTY**

This information is presented in good faith, but we cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used. We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products, either alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product or product combinations for their own purposes. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for this own particular use. We sell this product without warranty, and buyers and users assume all responsibility and liability for loss or damage arising from the handling and use of this product, whether used alone or in combination with other products.



**CONSEAL™**  
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**CS-50**

Liquid Butyl Primer

**APPLICATIONS**

Concrete surface preparation coating and installation aid for bonding preformed sealants to concrete structures and metal structures. Can be applied in advance of product installation.

**SEALING PROPERTIES**

When applied to concrete or metal, ConSeal CS-50 Liquid Butyl Primer creates a butyl rubber film that acts to both seal the structure and improve the bond between preformed sealants and the structure.

**PHYSICAL PROPERTIES**

Color:	Black
% Solids:	25% minimum
Solvent Type:	Hexane
Flash Point:	76°F
Weight/Gallon:	7.6 Pounds
Dry Time @ 77°F (25°C):	15-20 minutes
Dry Time @ 40°F (4°C):	30-40 minutes
Clean Up:	Mineral Spirits
Coverage Per Gallon:	Approx. 300 sq ft on wet cast concrete
Min. Storage Temperature:	32°F
Min. Application Temperature:	0°F
Surface When Dry:	Flat Black, non-tacky
Shelf Life	6 months

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**CONSEAL™**  
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**CS-212**

Polyolefin Backed Exterior Joint Wrap

**APPLICATIONS**

For self-sealing joints in: Box Culverts, Underground Concrete Vaults, Segmented Bridge Structures, Wastewater Structures and Arched Bridge Structures.

**SEALING PROPERTIES**

- 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 (4", 6", 8", 12" and 26" widths).
- Custom widths and lengths available upon request.
- CS-212 should be used in conjunction with a compatible primer. Consult Concrete Sealants for the proper primer to meet your application.

**SPECIFICATIONS**

ConSeal CS-212 meets ASTM E-1745, C-877 and C-990 Specifications.

**TECHNICAL DATA**

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

Class C. Specification	Test Method	E-1745 Requirement	CS-212
Water Vapor Permeance	ASTM F-1249	0.30 perms, max.	0.045 perms, max.
Tensile Strength	ASTM E-154	13.6 lbs./in, min.	21 lbs./in., min.
Puncture Resistance	ASTM D-1709	475 grams, min.	864 grams, min.

**TECHNICAL DATA**



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**CS-212**

Polyolefin Backed Exterior Joint Wrap

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

<b>Type III, Specification</b>	<b>E-1745 Requirement</b>	<b>CS-212</b>
Backing Bond Element	4 Mil, min. thickness	4 Mil
Butyl Rubber Adhesive	.03 inch, min. thickness	.065, min.

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

<b>Section 6, Specification</b>	<b>C-990 Test Method</b>	<b>Requirements</b>	<b>CS-212</b>
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, 7°F	ASTM D-113	5.0, min.	12, min.
Penetration, cone 77°F, 150 gm. 5 sec	ASTM D-217	50-120 mm	70-80 mm
Softening point, °F	ASTM D-36	320°F, min.	335°F, min.

<b>Section 10, Specification</b>	<b>C-990 Requirements</b>	<b>CS-212</b>
Hydrostatic Pressure	10 psi, 10 minutes, minimum	10 psi, 10 minutes, minimum

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**CONSEAL™**  
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High Performance Waterstop

## Product Description

ConSeal™ CS 220 Waterstop is a high performance preformed joint sealant. CS 220 is used as an alternate to traditional waterstops and will provide a lasting bond to cured and fresh concrete surfaces. Available in continuous coils ConSeal™ CS 220 does not rely on swelling upon contact with fresh concrete to achieve its waterstop capabilities.

## Applications

- Construction joints in foundation slabs and below grade walls
- Precast concrete wall panels
- Septic Tanks
- Sanitary & storm sewers manholes
- Pipes
- Utility & burial vaults
- Wet wells
- Box culverts
- Similar NON-MOVING COLD CONSTRUCTION JOINTS

## How To Apply

Carefully brush off dust and debris and apply a coat of an appropriate ConSeal™ primer to the keyway, if one exists, or in the center of the area on the cured concrete surface where the cold joint will be located. Using moderate hand pressure, with the heel of the hand, press a continuous bead of ConSeal™ firmly into position on the standing structure. Check to be certain that the sealant has bonded to the primed area. Peel the protective backing from the exposed side of ConSeal™ Waterstop. Knead the overlapped ends together to form a continuous, uninterrupted gasket. Pour the mating structural member into position or assemble mating precast structures into position.

ConSeal™ meets or exceeds the requirements of Federal Specification SS-S-210 (210A), ASTM C-990, AASHTO M198B.

Resistance to chemicals: The Sealing compound when immersed separately in a 5% solution of caustic potash, a 5% solution of hydrochloric acid, a 5% solution of sulfuric acid and a saturated hydrogen sulfide solution, the material showed no visible signs of deterioration.



**CONSEAL™**  
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**CS-213**

Geotextile Barrier

**APPLICATIONS**

External joint / seam wrap engineered for direct asphalt paving on: Bridge Decks, Box Culverts, and Concrete Bridge Spans.

**SEALING PROPERTIES**

- Chemically resistant butyl resin sealant laminated to a temperature resistant geotextile fabric.
- High strength materials provide excellent resistance to puncture, tear and abrasion.
- Aggressively bonds to concrete and metal structures.
- Provides a flexible seal which becomes a permanent part of the pavement structure when the tack coat and asphalt are applied over the ConWrap CS-213.
- Geotextile fabric absorbs asphalt tack coat at a rate of approximately 0.30 gallons per square yard.
- Application temperature range: 0°F to 120°F (-18°C to 48°C)
- Service temperature range: -50°F to 330°F (-45°C to 165°C)
- ConWrap CS-213 will not shrink or oxidize upon aging.
- Available in numerous standard sizes:
  - Widths in 6", 12", and 24"
  - Standard butyl sealant thickness: 0.100"

**SPECIFICATIONS**

Butyl Resin Sealant meets the requirements of ASTM Specification C990, Federal Specification SS-S00210 (210A) and AASTHO M-198(B).

**PHYSICAL PROPERTIES - SEALANT**

	<b>Spec</b>	<b>Required*</b>	<b>CS-213</b>
Hydrocarbon blend content % by weight	ASTM D4 (mod.)	50-70	51.2
Inert mineral filler % by weight	ASTM C990	30% min.	48.8
Volatile Matter % by weight	ASTM C990	2.0 max.	1.2
Specific Gravity, 77°F	ASTM C990	1.15-1.50	1.34
Ductility, 77°F	ASTM D113	5.0 min.	12
Penetration, cone 77°F, 150 gm. 5 sec.	ASTM D217	50-120 mm	80-90 mm
Softening point, ring and ball °F	ASTM D36	320° min.	320°+
Flash point, C.O.C., °F	ASTM C990	350°F min.	450°F



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**CS-213**

Geotextile Barrier

**PHYSICAL PROPERTIES – GEOTEXTILE BARRIER**

	<b>Spec</b>	<b>Units</b>	<b>Geotextile Barrier</b>
Grab Tensile, lbs.	D4632	lbs.	120
Elongation	D4632	%	50
Puncture Resistance, lbs.	D4833	lbs.	90
Bursting Strength (Mullen Burst)	D3786	psi	300
Trapezoid Tear	D4533	lbs.	45

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