

## Premium Joint Wrap for Structures in Contact with Hydrocarbons

### DESCRIPTION

ConWrap CS-414 is an exterior joint wrap, formerly known as ConSeal CS-440 Wrap, designed for Box Culverts, Underground Concrete Vaults, Segmented Bridge Structures, Wastewater Structures, Arched Bridge Structures, Manholes and Chimney Seals that come into contact with hydrocarbons. **Not intended for use in expansion joints or joints that move.**

### SEALING PROPERTIES

- Excellent resistance to puncture, tear and abrasions.
- Resistant to Fuel and Oil.
- Aggressively bonds to concrete and metal structures.
- Provides a permanent flexible water and soil barrier.
- Will not shrink, harden or oxidize upon aging.
- No priming normally necessary. When confronted with difficult installation conditions, such as wet concrete or temperatures below 40°F (4°C), priming the concrete will improve the bonding action. Consult Concrete Sealants for the proper primer to meet your application.
- Available in standard sizes:
  - **Standard thicknesses: 0.100" (2.54mm)**
  - **Standard widths: 6" (15cm) and 12" (30cm)**

### TECHNICAL DATA

Material	Concentration	Result	Recommendation
Gasoline	100%	No Degradation	Proper Application
Diesel Fuel	100%	No Degradation	Proper Application
Jet A Fuel	100%	No Degradation	Proper Application
JP-4 Fuel	100%	No Degradation	Proper Application
JP-8 Fuel	100%	No Degradation	Proper Application
Kerosene	100%	No Degradation	Proper Application
Motor Oil	100%	No Degradation	Proper Application
Transmission Fluid	100%	No Degradation	Proper Application
Cooking Oil	100%	No Degradation	Proper Application
Mineral Spirits	100%	No Degradation	Proper Application
Alcohol	100%	No Degradation	Proper Application
Anti Freeze	100%	No Degradation	Proper Application
Runway De-Icers	100%	No Degradation	Proper Application
Cleaning Detergents	100%	No Degradation	Proper Application
Insecticides	100%	No Degradation	Proper Application
Fertilizers	100%	No Degradation	Proper Application
Brake Fluid	100%	Some Swelling After 45 Days	Limited Exposure
Methyl Ethyl Ketone	100%	Swelling, Cracking	Inappropriate Application
Toluene	100%	Swelling, Cracking	Inappropriate Application
Acrylic Acid, Glacial	100%	Swelling, Cracking	Inappropriate Application

Contact Concrete Sealants, Inc. to discuss options for your specific application.

### INSTALLATION GUIDELINES

The following procedures should be followed for optimum sealant performance.

- Clean the surface with a brush and remove any dirt, debris, flashing, or concrete high points, which could keep ConWrap CS-414 from adhering to the concrete.
- ConSeal recommends the use of surface primers, as primers improve adhesion. When using a primer, allow the primer to dry before placing sealant.
- ConSeal primers are specifically designed for use with ConSeal products. Contact ConSeal for the best primer for the projects specific application.
- To apply ConWrap to a horizontal joint, begin by removing the release paper from the adhesive side and apply the ConWrap to the concrete.
- Continue around the joint by removing the release paper as the roll of ConWrap is unrolled. Press the wrap firmly by hand against the entire surface as it is applied to assure full contact.
- Where joining two sections, or where two ends meet together, provide an overlap of approximately 2" and firmly press the overlapping strip onto the end of the underlying strip to seal the joint.

Reference Installation Instructions for "ConWrap (Exterior Joint Wrap)" for more detailed instructions.

### 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 users' 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.

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### PHYSICAL PROPERTIES & CHEMICAL COMPOSITION

Description	Spec	ConWrap CS-414
<b>Banding Band:</b>		
Color		Black
Thickness, in.		0.004
Tensile Strength, mach. direction	<b>D882</b>	4,158 psi
Elongation at break, min, %, mach. direction	<b>D882</b>	107%
Tear resistance, mach. Direction	<b>D624</b>	1508 psi
Water absorption	<b>D570</b>	0.01%
<b>Hydrocarbon Resistant Adhesive:</b>		
Color		Gray
Percent Solids		99%
Thickness, in.		0.095
Ductility, @ 77°F	<b>D113</b>	6 cm
Specific Gravity	<b>D71</b>	1.30-1.50
Adhesion	<b>D903</b>	3.7 lbf
Penetration, cone 77°F (25°C), 150 gm, 5 sec.	<b>D217</b>	60-70 dmm
Softening point, °F	<b>D36</b>	350°F (177°C)
Application Temp.		20°F to 120°F (-7°C to 49°C)
Service Temp.		-30°F to 200°F (-34°C to 93°C)



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