

High Temperature Resilient, Cold Applied, Self-Healing, Antimicrobial, Exterior Joint Wrap

DESCRIPTION

ConWrap AMS100 is a high temperature resilient (up to 100°C), cold applied, self-healing, antimicrobial, exterior wrap used to prevent corrosion of metal and concrete. The high-tack adhesive, peel and stick, self-healing, viscoelastic compound completely encapsulates structures, such as pipelines or concrete grade rings. A secondary protective layer, such as outer polyethylene tape wrap, improves impact resistance and supports the self-healing characteristics of the viscoelastic wrap. ConWrap AMS provides long-term corrosion protection to exposed and buried infrastructure such as: pipelines, flanges, and valves.



SEALING PROPERTIES

- Meets NACE 0109 and ISO 21809-3
- Self-Healing from small cuts, dents or punctures
- Resistant to high temperatures
- Viscoelastic modulus flows into pores and surface anomalies
- Aggressively bonds to metal and concrete structures
- Resistant to cathodic disbondment
- UV resistant
- Provides a permanent flexible water and silt barrier
- Will not shrink, harden or oxidize upon aging.
- Antimicrobial properties are built in to inhibit the growth of bacteria that may affect this product.
- Available in several standard sizes:
 - **Standard thickness: 80 mils ± 8 mils (2mm ± 0.2mm)**
 - **Standard widths: 4" (10cm) x 33' (10M) - 6 rolls/ctn**
 - **6" (15cm) x 33' (10M) - 4 rolls/ctn**
 - **8" (20cm) x 33' (10M) - 4 rolls/ctn**
 - **12" (30cm) x 33' (10M) - 2 rolls/ctn**
- **Custom widths and lengths available upon request**

PHYSICAL PROPERTIES

Description	Spec	ConWrap AMS100
Color		Gray
Thickness		80 mils ± 8 mils (2mm ± 0.2mm)
Service Temperature		-45°F to 203°F (-45°C to 100°C)
Specific Gravity	ASTM D71	1.25 - 1.40
Glass Transition Temp.	ASTM E1356	-66.1°C
Water Vapor Permeability	ASTM G96 / ISO 21809 (2016)	0 (ng/m ² *s*Pa)
Dielectric Strength	ASTM D149	13 kV/mm
Peel Strength	ISO 21809-3 (2016) Annex H	23°C 0.46 N/mm 70°C 0.07 N/mm
Peel Strength (Thermal Aging)	ISO 21809-3 (2016) Annex H	23°C 0.60 N/mm 70°C 0.10 N/mm
Impact Strength	ISO 21809-3 (2016) Annex D	No Holiday Detected
Indentation Resistance	ISO 21809-3 (2016) Annex E	23°C Pass (.98mm) 70°C Pass (0.7mm)
Cathodic Disbondment	ISO 21809-3 (2016) Annex G	0 mm Self-Healing
Specific Electrical Insulation Resistance	ISO 21809-3 (2016) Annex F	1.60 x 10 ⁹ Ohms·m ²
Chemical Resistance in aggressive soils	Tested in 30% sulfuric acid, 20% phosphoric acid, 10% nitric acid, and 10% hydrochloric acid	Excellent; no deterioration or corrosion after 3 days @158°F (70°C)

P A T E N T P E N D I N G

SURFACE PREPARATION

For Metal: Clean the surface with a brush and remove any dirt or debris, which could keep ConWrap AMS100 from adhering to the metal. Once all debris has been removed, all dust and grease like substances should be removed with denatured alcohol or similar cleaner. Dry surface required before application.
For Concrete: Clean the surface with a brush and remove any dirt or debris. Once all debris has been removed, all dust and grease like substances should be removed with denatured alcohol or similar cleaner. Dry surface required before application. Consult Concrete Sealants with questions about your exact application.

INSTALLATION GUIDELINES

The following procedures should be followed for optimum sealant performance.

- Remove release liner and press adhesive side onto structure.
- ConWrap AMS100 should be applied in a straight circumferential wrap at termination points before continuing in an angled circumferential wrapping method around the length of the pipe using a 1/2" to 1" (13mm to 25mm) overlap.
- When the ConWrap AMS100 is complete, a protective outer layer is required to complete the system, such as: a polyethylene outerwrap.

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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CONCRETE SEALANTS, INC. | 9325 STATE ROUTE 201, TIPP CITY, OH 45371, USA | WWW.CONSEAL.COM

USA | CANADA +1.800.332.7325 | INTERNATIONAL +1.937.845.8776

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