

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

DESCRIPTION

ConWrap PW100 is a high temperature resilient (up to 100°C), cold applied, self-healing, 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 PW100 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.
- 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 PW100
Color		Gray
Thickness		80 mils ± 8 mils (2mm ± 0.2mm)
Service Temperature		-45°F to 203°F (-45°C to 100°C)
Drip Resistance	ISO 21809-3 (2016) Annex K	Pass at 90°C (194°F)
Lap Shear Strength	ISO 21809-3 (2016) Annex J	23°C 0.021 N/mm ² 70°C 0.003 N/mm ²
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 Resistance	ISO 21809-3 (2016) Annex D	No Holiday Detected
Indentation Resistance	ISO 21809-3 (2016) Annex E	23°C Pass (0.98mm) 70°C Pass (0.70mm)
Cathodic Disbondment	ISO 21809-3 (2016) Annex G	0mm 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)

SURFACE PREPARATION

For Metal: Clean the surface with a brush and remove any dirt or debris, which could keep ConWrap PW 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 PW100 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 - 25mm) overlap.
- When the ConWrap PW100 is complete, a protective outer layer is required to complete the system, such as: a polyethylene outerwrap.

LIMITED WARRANTY

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