Guardian Butylwrap 1030

GUARDIAN PROTECTIVE COATINGS

GUARDIAN Butylwrap 1030 is a cold applied tape coating system designed for the corrosion protection of field joints, fittings and specialty piping. The products can be used for both buried and above ground applications

GUARDIAN Butylwrap 1030 tape has a butyl rubber adhesive and retains conformability over a wide temperture range, yet exhibits an elevated level of shear resistance, which is a key in-ground performance characteristic. Coupled with a malleable polythylene backing, this versatile tape system can be applied by hand or with a wrapping machine.

APPEARANCES

Guardian Butylwrap 1030 is a heavy duty adhesive, no release liner and conformable to irregular shapes and worldwide reference lists. It complies with AWWA standard C209 & C214, EN12068, DIN30672 and also compatible with generic plant coating systems.

ADVANTAGES

It ensures a strong bond and impervious seal. It is very fast and easy for installation and establish in ground history. Additional, it offers a solution for nearly every application. It is versatile and reliable in which is a high performance corrosion protection.

APPLICATIONS

Compatible line coatings	PE, FBE, CTE, CT, COLD TAPE
Max operating temperature	85°C
Recommended pipe preparation	SSA-ST2 (SSPC-SP3) or
	SSA-SA2 (SSPC-SP6)
	1-3 mil anchor profile
	(25-76 micron anchor profile)
Recommended Primer	Butylwrap P27
Additional merchanical layer	Butylwrap 1055-20
Performance	AWWA C214 & C209, EN12068, DIN 30672 class B30

PROPERTIES

Property	Test Method	Typical Value 1030-35	Typical Value 1030-50	Units
Tensile Strength	ASTM D 1000	15 2.6	25 4.4	pli N/mm
Elongation	ASTM D 1000	340	300	%
Peel adhesion to primed steel	ASTM D 1000	15.6 2.7	18.7 3.3	pli N/mm
Cathodic disbondment	ASTM G 8	0.25 6.4	0.27 6.9	in raduis mm
Dielectric strength Impact	ASTM D 149	21	28	kV
resistance Indentation	EN12068*	>8		J
resistance	EN12068*	Class B30		mm
Insulation resistivity	ASTM E 257	1.4x10^7	2.0x10^7	MΩ
Water vapor transmission	ASTM E 96B	0.07	0.07	perm
Water vapor transmission rate	ASTM F 1249 (100°F,100%RH)	0.04 0.6	0.04 0.6	g/100in^2/24hr g/m^2 /24hr
Volume resistivity	ASTM D 257	2.5x10^16	2.0x10^16	Ω cm

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PRODUCT (BUTYLWRAP 1030) Color: Black

Part No.	Weight	Length
FG001281	50 mm	15 m
FG001282	100 mm	15 m
FG001283	150 mm	15 m

PRODUCT Construction

	1030-35	1030-50
Backing	6.5 mils (0.165 mm)	10 mils (0.254 mm)
Adhesive	28.5 mils (0.724 mm)	40 mils (1.016 mm)

Application instruction: Job preparation

Tools, equipment and auxiliaries	Temperature gauge, DFT/WFT gauge Primer application equipment/agitator, Tape application equipment, Coating “hot box”
Additional coating materials	Butylwrap 1055, Mastic Filler Tape
High humidity	Butylwrap 1030 can be applied in a humid atmosphere. The substrate should be free from condensing water which can be reached by keeping the temperature at least 5°F (3°C) above dew point
Work area and substrate	The substrate surface should be dry, clean and protected against negative weather influences
Product conditions	Butylwrap 1030 shall be stored and/or transported in a dry, ventilated location. Storage temperature shal be a minimum of 16°C and a maximum of 49°C.The minimum primer and roll body temperature for application will be 16°C.

Application instruction: Surface preparation

General	The area to be coated has to be clean, dry, and free from oil, grease and dust. All contamination including mill-scale has to be removed.
Degreasing	Degrease surfaces with Toluene or Heptane and e.g. a lint-free cloth.
Preventing condensation of water	temperature of the substrate(s) must be at least 5°F (3°C) above the dew point.
Substrate temperature	Temperature of the substrate should preferably be between 20°C and 40°C. Preheating may be required.

Application instruction: Brief version

Step 1	Clean substrate to SSA-ST2, SSPC-SP3 (power wire brush) or SSA-SA 2, SSPC-SP6 (commercial blast). Surface (anchor) profile depth shall be no less than 1.0 mils (25 micron) and no greater than 3 mils (76 micron).
Step 2	Uniform primer application achieving 2 to 3 mil WFT. Primer should be “dry to touch” before application of inner layer.
Step 3	If required, apply weld seam coating (Mastic Filler Tape)
Step 4	Spirally apply the Butylwrap1030 inner layer (anti corrosion) with a 1% to 2% neckdown. A minimum of two layers of Butylwrap 1030 shall be applied.
Step 5	Spirally apply the Butylwrap 1055 outer layer (mechanical Protection) with over the single layer of Butylwrap 1030.
Step 6	Perform holiday detection per NACE RP-02-74