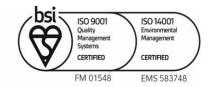


TECHNICAL DATA SHEET

LEADERS IN CORROSION PREVENTION & SEALING TECHNOLOGY



Premier ButyI™ R23 Outerwrap

Cold applied anti-corrosion and mechanical protection tape

Composition

Premier Butyl™ R23 Outerwrap is comprised of a polyethylene film coated with a butyl rubber compound.

Uses

Premier Butyl™ R23 Outerwrap can be used as anti-corrosion and mechanical protection around buried or immersed pipelines as well as welded seams. The Premier Butyl™ Tape System meets the requirements for class C according to DIN EN 12068 for temperatures up to 50°C as tested by DVGW.

Application

See Instructions for use for additional information. Premier Butyl™ R23 Outerwrap is part of the Premier Butyl™ Tape System and is designed to be used in conjunction with Premier Butyl™ P16HT Primer and Premier Butyl™ S43 Innerwrap and Premier Butyl™ Mastic.

Availability

Premier Butyl™ R23 Outerwrap is supplied in 15 m and 30 m rolls with widths ranging between 30 mm and 150 mm.

Storage Conditions

Store in a cool and dry place in original packaging.

Waste Material

Please avoid or minimise waste wherever possible. Please do not discard waste material, including packaging, in the surrounding environment. Follow all relevant legislation for disposal.

Typical properties

Premier Butyl™ R23 Outerwrap			
Thickness			
Adhesive	≥0.3 mm		
Backing	≥0.2 mm	ASTM D1000	
Total	≥0.5 mm	5 mm	
Tong atyonath	≥10 N/mm	DIN EN 12068	
Tape strength	≥50 MPa	ASTM D 1000	
Elongation at break	≥750%	DIN EN 12068	
	≥150%	ASTM D 1000	
Water absorption	~0.00 0/	DIN EN ISO 62	
	≤0.08%	ASTM D 540	
		DIN 5350	
Shore D Hardness (PE film)	≥51	ISO 868	
Peel strength	23°C 50°C		
Tape to tape @ 100mm/min	≥0.5 N/mm ≥0.2 N/mm	DIN EN 12068	
Tape to tape @ 100mm/min	≥0.5 N/mm ≥0.2 N/mm ASTM D 1000		
Tape to tape @ 300mm/min	≥0.8 N/mm ≥0.2 N/mm	ASTM D 1000	
Ageing resistance			
Change in elongation at break after 100d, 70°C	- 5%	DIN EN 12068	
Change in tape strength after 100d, 70°C	- 5% ISO 21809-3		
Change in peel str. Tape/tape after 100d, 70°C	<2%		

Premier Butyl™ R23 Outerwrap

Impact resistance	pact resistance ≥15 J		DIN EN 12068
	≥5.7	J/mm	ISO 21809-3
Indentation resistance		50°C	
Pressure		10 N/mm ²	DIN EN 12068
Residual layer thickness	≥0.9 mm	≥0.6 mm	ISO 21809-3
Specific electric insulation resistance	$>10^{11} \Omega m^2$		DIN EN 12068 ISO 21809-3
Dielectric strength	≥40 kV/mm		ASTM D149
Cathodic disbondment, 28d		50°C	DIN EN 12068
		≤15 mm	ISO 21809-3
Peel strength		50°C	
Outer tape to inner tape @ 100 mm/min		≥0.2 N/mm	DIN EN 12068
On pipe surface @ 10mm/min		≥0.2 N/mm	DIN EN 12068
On factory coating @ 10mm/min	≥1.8 N/mm	≥0.2 N/mm	DIN EN 12068
Outer tape to inner tape @ 100 mm/min	≥2.0 N/mm	≥0.2 N/mm	ISO 21809-3
On pipe surface @ 10 mm/min	≥1.8 N/mm	≥0.2 N/mm	ISO 21809-3
On factory coating @ 10 mm/min	≥1.8 N/mm	≥0.2 N/mm	ISO 21809-3
On pipe surface after hot water, 28d @ 50°C	≥1.5 N/mm	≥0.2 N/mm	ISO 21809-3
On factory coating after hot water, 28d @ 50°C	≥2.0 N/mm	≥0.2 N/mm	ISO 21809-3
Outer tape to inner tape @ 300 mm/min	≥2.0 N/mm	≥0.5 N/mm	ASTM D 1000
On pipe surface @ 300 mm/min	≥4.0 N/mm	≥0.5 N/mm	ASTM D 1000
On factory coating @ 300mm/min	≥2.0 N/mm	≥0.5 N/mm	ASTM D 1000
Lap shear strength	23°C	50°C	
On steel @ 10 mm/min		≥0.05 N/mm ²	DIN EN 12068
On factory coating @ 10 mm/min		≥0.05 N/mm²	DIN EN 12068
On steel @ 10mm/min	>0.1 N/mm²	≥0.05 N/mm ²	ISO 21809-3
On factory coating @ 10 mm/min		≥0.05 N/mm ²	ISO 21809-3
On factory coating @ 1.3 mm/min	≥0.05 N/mm²	≥0.05 N/mm²	ASTM D 1000
Ageing resistance Change in peel strength to pipe surface after 100 days, 70°C	≤10%		DIN EN 12068 ISO 21809-3

Note: Premier Butyl™ Tape System is not suitable for the sealing of leakages in media transporting pipelined but exclusively for the prevention and protection from corrosion.

Important: Winn & Coales (Denso) Ltd pursue a policy to develop and continually improve all of our products and therefore the information given in this data sheet is intended as a general guide and does not constitute a warranty of specification. However, our sales personnel are committed to assist the user in establishing the suitability of the product for its intended purpose and additional specific information is available on request. Winn & Coales (Denso) Ltd operate a Quality Management System registered to BS EN ISO 9001 (BSI Certificate no. FM01548) and an Environmental Management System registered to BS EN 14001 (BSI Certificate 583748).

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