

Premier Butyl™ 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	
Tape strength	≥10 N/mm ≥50 MPa	DIN EN 12068 ASTM D 1000
Elongation at break	≥750%	DIN EN 12068 ASTM D 1000
Water absorption	≤0.08%	DIN EN ISO 62 ASTM D 540
Shore D Hardness (PE film)	≥51	DIN 5350 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%	

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Premier Butyl™ Tape System		
Impact resistance	≥15 J ≥5.7 J/mm	DIN EN 12068 ISO 21809-3
Indentation resistance	23°C 50°C	
<i>Pressure</i>	10 N/mm ² 10 N/mm ²	DIN EN 12068
<i>Residual layer thickness</i>	≥0.9 mm ≥0.6 mm	ISO 21809-3
Specific electric insulation resistance	>10 ¹¹ Ωm ²	DIN EN 12068 ISO 21809-3
Dielectric strength	≥40 kV/mm	ASTM D149
Cathodic disbondment, 28d	23°C 50°C ≤8 mm ≤15 mm	DIN EN 12068 ISO 21809-3
Peel strength	23°C 50°C	
<i>Outer tape to inner tape @ 100 mm/min</i>	≥2.0 N/mm ≥0.2 N/mm	DIN EN 12068
<i>On pipe surface @ 10mm/min</i>	≥1.5 N/mm ≥0.2 N/mm	DIN EN 12068
<i>On factory coating @ 10mm/min</i>	≥1.8 N/mm ≥0.2 N/mm	DIN EN 12068
<i>Outer tape to inner tape @ 100 mm/min</i>	≥2.0 N/mm ≥0.2 N/mm	ISO 21809-3
<i>On pipe surface @ 10 mm/min</i>	≥1.8 N/mm ≥0.2 N/mm	ISO 21809-3
<i>On factory coating @ 10 mm/min</i>	≥1.8 N/mm ≥0.2 N/mm	ISO 21809-3
<i>On pipe surface after hot water, 28d @ 50°C</i>	≥1.5 N/mm ≥0.2 N/mm	ISO 21809-3
<i>On factory coating after hot water, 28d @ 50°C</i>	≥2.0 N/mm ≥0.2 N/mm	ISO 21809-3
<i>Outer tape to inner tape @ 300 mm/min</i>	≥2.0 N/mm ≥0.5 N/mm	ASTM D 1000
<i>On pipe surface @ 300 mm/min</i>	≥4.0 N/mm ≥0.5 N/mm	ASTM D 1000
<i>On factory coating @ 300mm/min</i>	≥2.0 N/mm ≥0.5 N/mm	ASTM D 1000
Lap shear strength	23°C 50°C	
<i>On steel @ 10 mm/min</i>	≥0.1 N/mm ² ≥0.05 N/mm ²	DIN EN 12068
<i>On factory coating @ 10 mm/min</i>	≥0.1 N/mm ² ≥0.05 N/mm ²	DIN EN 12068
<i>On steel @ 10mm/min</i>	≥0.1 N/mm ² ≥0.05 N/mm ²	ISO 21809-3
<i>On factory coating @ 10 mm/min</i>	≥0.1 N/mm ² ≥0.05 N/mm ²	ISO 21809-3
<i>On factory coating @ 1.3 mm/min</i>	≥0.05 N/mm ² ≥0.05 N/mm ²	ASTM D 1000
Ageing resistance		
<i>Change in peel strength to pipe surface after 100 days, 70°C</i>	≤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.

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Revision date: 04/10/2022

WINN & COALES (DENSO) LTD
Denso House, 33-35 Chapel Road,
London, SE27 0TR
United Kingdom



TEL: +44 (0) 20 8670 7511
FAX: +44 (0) 20 8761 2456
WEB: www.denso.net
EMAIL: mail@denso.net