

Premier Shrink Sleeve 50 ST

with thermal indicator and separate closure patch



PE Backing

Butyl Rubber



Description

Premier Shrink Sleeve 50 ST is a warm-applied corrosion protective sleeve. It is used for the protection of welded field joints on buried or above ground pipelines and can be applied on-site. It meets the requirements of stress class C for continuous operating temperatures up to 50 °C according to DIN EN 12 068 and DIN 30 672. Other site applications include the repair of mechanical defects in PE or PP factory coatings.

Compatibility

Premier Shrink Sleeve 50 ST is compatible with factory coatings of PE, PP, Epoxy resin, polyurethane and bitumen.

System

Premier Shrink Sleeve 50 ST system is simply comprised of a single layer shrinkable sleeve. No primer is required.

Each sleeve consists of a crosslinked and stabilised PE backing coated with a butyl rubber adhesive.

Indicator

The surface pattern of the sleeve is a thermal indicator. With sufficient heat, the surface becomes smooth.

Characteristics

- High-quality field coating,
- Mechanically protective backing,
- Requires no primer, and
- Provides proven corrosion protection.

Complementary products

Premier Butyl™ Mastic

Non-curing, permanently plastic butyl rubber mass, easy to form by hand, for the padding of uneven surfaces and for the prevention from cavitation.

Premier Melt Stick

For the repair of minor damages to the PE factory coating

Premier Patch Repair Kit

Warm-applied repair patch comprising crosslinked PE coated with melt adhesive. Can be used for the repair of mechanical damage in factory coatings of PE or PP.

Characteristics

Backing	
Colour	Black
Nominal Thickness	1.0 mm
Type	Crosslinked PE backing
Adhesive	
Colour	Black
Nominal Thickness	1.5 mm
Type	Butyl coating
Hardness of PE film (Shore D)	≥ 45
UV resistance	Backing contains >2% carbon black

Typical Properties

	Typical Result	Test Method
Impact resistance	15 J 6 J/mm	EN 12068 ISO 21809-3
Breaking strength	15 N/mm 15 MPa	EN 12068 / ISO 21809-3 EN 12068 / ISO 21809-3
Elongation at break	600%	EN 12068
Water absorption	0.05%	EN ISO 62
Peel Strength (layer to layer) 23°C	2 N/mm	EN 12068
Peel Strength (layer to layer) 50°C	0.2 N/mm	EN 12068
Peel Strength (pipe surface) 23°C	0.05 N/mm	EN 12068 / ISO 21809-3
Peel Strength (pipe surface) 50°C	0.01 N/mm	EN 12068 / ISO 21809-3
Peel Strength (factory coating) 23°C	0.05 N/mm	EN 12068 / ISO 21809-3
Peel Strength (factory coating) 50°C	0.01 N/mm	EN 12068 / ISO 21809-3
Lap shear strength (steel surface) 23°C	0.05 N/mm ²	EN 12068 / ISO 21809-3
Lap shear strength (steel surface) 50°C	0.05 N/mm ²	EN 12068 / ISO 21809-3
Lap shear strength (factory coating) 23°C	0.05 N/mm ²	EN 12068 / ISO 21809-3
Lap shear strength (factory coating) 50°C	0.05 N/mm ²	EN 12068 / ISO 21809-3
Indentation Resistance (23°C) Residual Thickness	10 N/mm ² ≥0.6 mm	EN 12068 / ISO 21809-3
Specific electrical insulation resistance	>10 ¹⁰ Ωm ²	EN 12068
Dielectric breakdown	>40 kV/mm	ASTM D149
Cathodic disbondment, 28 days, 50°C	≤4 mm	EN 12068 / ISO 21809-3

Application

See *Instructions for Use* for additional detail.

Availability

Roll width	Roll length	Roll Area	Weight per roll
450 mm	30 m	13.5 m ²	39 kg
600 mm	30 m	18.0 m ²	51 kg

Kits are also available.

Storage conditions

Storage temperatures: +5 to 35°C

If stored in a dry, well ventilated place in original packaging.

Shelf life: 24 months (when stored as recommended)

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).