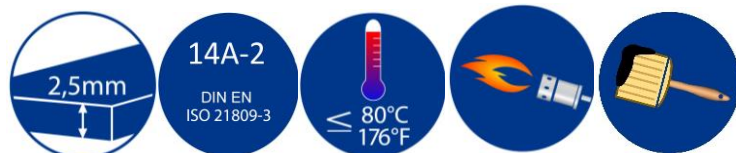
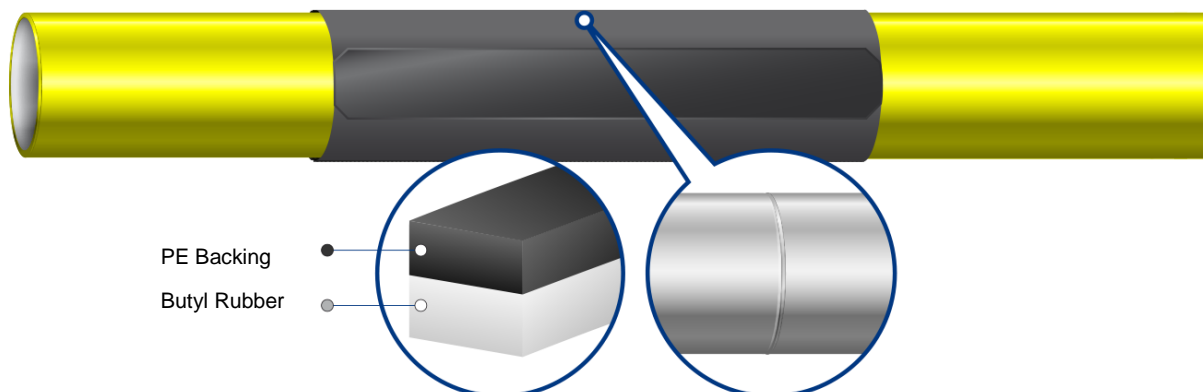


# Premier Shrink Sleeve 80 ST

with thermal indicator and separate closure patch



## Description

Premier Shrink Sleeve 80 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. Other site applications include the repair of mechanical defects in PE or PP factory coatings.

## Compatibility

Premier Shrink Sleeve 80 ST is compatible with factory coatings of PE, PP, Epoxy resin, polyurethane and bitumen.

## System

Premier Shrink Sleeve 80 ST system is simply comprised of a single layer shrinkable sleeve over Premier Butyl™ P16HT Primer.

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,
- Suitable for operating temperatures up to 80°C
- Mechanically protective backing, and
- Provides proven corrosion protection.

## Complementary products

### Premier Melt Stick

For the repair of small damage in the PE factory coating.

## 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) | 53                                |
| UV resistance                 | Backing contains >2% carbon black |

## Typical Properties

|   | Typical Result                    | Test Method            |
|---|-----------------------------------|------------------------|
| Impact resistance                         | 16 J                              | EN 12068               |
|   | 6.4 J/mm                          | ISO 21809-3            |
| Breaking strength                         | 40 N/mm                           | EN 12068               |
|   | 40 MPa                            | EN 12068               |
| Elongation at break                       | 600%                              | EN 12068               |
| Water absorption                          | 0.05%                             | EN ISO 62              |
| Peel Strength (layer to layer) 23°C       | 8.5 N/mm                          | ISO 21809-3            |
| Peel Strength (layer to layer) 80°C       | 0.09 N/mm                         | ISO 21809-3            |
| Peel Strength (pipe surface) 23°C         | 3.5 N/mm                          | ISO 21809-3            |
| Peel Strength (pipe surface) 80°C         | 0.1 N/mm                          | ISO 21809-3            |
| Peel Strength (factory coating) 23°C      | 3.5 N/mm                          | ISO 21809-3            |
| Peel Strength (factory coating) 80°C      | 0.1 N/mm                          | ISO 21809-3            |
| Lap shear strength (steel surface) 23°C   | 0.1 N/mm <sup>2</sup>             | EN 12068 / ISO 21809-3 |
| Lap shear strength (steel surface) 80°C   | 0.05 N/mm <sup>2</sup>            | EN 12068 / ISO 21809-3 |
| Lap shear strength (factory coating) 23°C | 0.1 N/mm <sup>2</sup>             | EN 12068 / ISO 21809-3 |
| Lap shear strength (factory coating) 80°C | 0.05 N/mm <sup>2</sup>            | EN 12068 / ISO 21809-3 |
| Indentation Resistance (23°C)             | 10 N/mm <sup>2</sup>              | EN 12068 / ISO 21809-3 |
| Residual Thickness                        | 0.6 mm                            |                        |
| Indentation Resistance (80°C)             | 10 N/mm <sup>2</sup>              | EN 12068 / ISO 21809-3 |
| Residual Thickness                        | 0.6 mm                            |                        |
| Specific electrical insulation resistance | >10 <sup>10</sup> Ωm <sup>2</sup> | EN 12068               |
| Dielectric breakdown                      | 44 kV/mm                          | ASTM D149              |

## 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 <sup>2</sup> | 39 kg           |
| 600 mm     | 30 m        | 18.0 m <sup>2</sup> | 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)

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