



Serviwrap®
 Technical Data Sheet
DESCRIPTION

Serviwrap R15 is a 1.14mm, cold applied coating designed to provide protection against corrosion and electrolysis on below grade metal substrates. The anti-corrosion bituminous rubber compound provides self sealed joints at longitudinal and end of roll overlaps, and is highly resistant to cathodic elasticity. The unique extruded PVC carrier is engineered for toughness, conformability and controlled elasticity.

Serviwrap R15 can be provided in either a Temperate grade (R15A) or a Tropical grade (R15B) depending on the application location.

RECOMMENDED USE

A medium duty, cold-applied PVC pipe wrap for use on buried pipe. For field welds, fabrications, bends and fittings.

SUBSTRATE COMPATIBILITY

Steel, Stainless Steel, Ductile Iron, Other Metals, FBE, PE, Plastic Pipe

SURFACE PREPARATION

The surface to be wrapped should be as clean as possible. Remove metal burrs and other projections, and all loose matter, any existing coatings, dirt, rust and foreign debris. Ensure all oil and grease is removed with solvent.

Inspect old pipework or factory coatings and remove any loose coating back to sound material with wire brushing. Where new or existing steelwork has been subjected to chemical attack, salt spray, fungi or bacteria other methods may be used.

PRIMER

Serviwrap R15 requires a primer to allow for permanent adhesion. Serviwrap Primer AB should be applied and allowed to dry prior to application of the tape. See the application guideline for more details.

REFERENCE

Serviwrap R15 meets all of the performance criteria listed in the most recent revision of:

NACE SP0109 (Cold-Applied Laminate Polymeric Tapes)

SAFETY

Refer to Safety Data Sheet: SDS-SERVIWRAP

APPLICATION

Refer to Application Guidelines: AG-COLD-APPLIED-BITUMEN-TAPE

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Typical Data

| Property | Metric | US Customary | Test Method |
|--|---------------------------------------|---------------------------------------|-------------------------|
| Total Thickness | 1.14 mm | 45 mils | ASTM D1000 |
| Backing Thickness | 0.38 mm | 15 mils | ASTM D1000 |
| Adhesive Thickness | 0.76 mm | 30 mils | ASTM D1000 |
| Cathodic Disbondment, 30 days | <10 mm radial | <0.4 in ² | ASTM G8 |
| Adhesion to Self* | 2.5 N/mm | 14.3 lb/in | ASTM D1000 |
| Adhesion to Primed Steel* | 2.5 N/mm | 14.3 lb/in | ASTM D1000 |
| Tensile Strength | 14.8 N/mm ² | 2150 psi | ASTM D638 |
| Tensile Modulus | 10.5 N/mm ² | 1500 psi | ASTM D638 |
| Elongation | 230% | 230% | ASTM D638 |
| Dielectric Strength | >30 kV | >30 kV | BS2782 |
| Holiday Detection Setting | 8.5 kV | 8.5 kV | NACE RP0274 |
| Impact Resistance | >12 J | >100 in lb | ASTM G13 |
| Water Vapor Permeability | 0.36 g/(24h*m ²) | 0.025 g/(24h*100 in ²) | ASTM E96 Procedure B |
| Water Absorption | <0.5% | <0.5% | ASTM D570 |
| Insulation Resistance | 10 ¹² Ohms/cm ² | 10 ¹² Ohms/cm ² | ASTM D257 |
| Storage Temperature Range | <30°C | <86°F | |
| Application Temperature Range R15A Temperate R15B Tropical | +5°C to +35°C +5°C to +60°C | +41°F to +95°F +41°F to +140°F | |
| Service Temperature Range | -20°C to +75°C | -4°F to +167°F | |

* Peak Mean Adhesion

ORDERING INFORMATION

| Dimension | Sizes Available |
|-----------|--------------------------------|
| Width | 50, 100, 150, 225, 300, 450 mm |
| Length | 12 - 60 m |



Technical Data Sheet

| | |
|--------------------------------|--|
| DESCRIPTION | <p>Serviwrap R30 is a 1.65mm, cold applied coating designed to provide protection against corrosion and electrolysis on below grade metal substrates. The anti-corrosion bituminous rubber compound provides self sealed joints at longitudinal and end of roll overlaps, and is highly resistant to cathodic elasticity. The unique extruded PVC carrier is engineered for toughness, conformability and controlled elasticity.</p> <p>Serviwrap R30 can be provided in either a Temperate grade (R30A) or a Tropical grade (R30B) depending on the application location.</p> |
| RECOMMENDED USE | A high-performance, cold-applied PVC pipe wrap for use on buried and submarine line pipe. For field welds, fabrications, bends and fittings. |
| SUBSTRATE COMPATIBILITY | Steel, Stainless Steel, Ductile Iron, Other Metals, FBE, PE, Plastic Pipe |
| SURFACE PREPARATION | <p>The surface to be wrapped should be as clean as possible. Remove metal burrs and other projections, and all loose matter, any existing coatings, dirt, rust and foreign debris. Ensure all oil and grease is removed with solvent.</p> <p>Inspect old pipework or factory coatings and remove any loose coating back to sound material with wire brushing. Where new or existing steelwork has been subjected to chemical attack, salt spray, fungi or bacteria other methods may be used.</p> |
| PRIMER | Serviwrap R30 requires a primer to allow for permanent adhesion. Serviwrap Primer AB should be applied and allowed to dry prior to application of the tape. See the application guideline for more details. |
| REFERENCE | <p>Serviwrap R30 meets all of the performance criteria listed in the most recent revision of:</p> <p>NACE SP0109 (Cold-Applied Laminate Polymeric Tapes)</p> |
| SAFETY | Refer to Safety Data Sheet: SDS-SERVIWRAP |
| APPLICATION | Refer to Application Guidelines: AG-COLD-APPLIED-BITUMEN-TAPE |

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Typical Data

| Property | Metric | US Customary | Test Method |
|--|---------------------------------------|---------------------------------------|-------------------------|
| Total Thickness | 1.65 mm | 65 mils | ASTM D1000 |
| Backing Thickness | 0.75 mm | 29.5 mils | ASTM D1000 |
| Adhesive Thickness | 0.90 mm | 35.4 mils | ASTM D1000 |
| Cathodic Disbondment, 30 days | <10 mm radial | <0.4 in ² | ASTM G8 |
| Adhesion to Self* | 2.75 N/mm | 15.7 lb/in | ASTM D1000 |
| Adhesion to Primed Steel* | 2.75 N/mm | 15.7 lb/in | ASTM D1000 |
| Tensile Strength | 14.8 N/mm ² | 2150 psi | ASTM D638 |
| Tensile Modulus | 10.5 N/mm ² | 1500 psi | ASTM D638 |
| Elongation | 270% | 270% | ASTM D638 |
| Dielectric Strength | >40 kV | >40 kV | BS2782 |
| Holiday Detection Setting | 10 kV | 10 kV | NACE RP0274 |
| Impact Resistance | 20 J | 160 in lb | ASTM G13 |
| Water Vapor Permeability | 0.36 g/(24h*m ²) | 0.025 g/(24h*100 in ²) | ASTM E96 Procedure B |
| Water Absorption | <0.5% | <0.5% | ASTM D570 |
| Insulation Resistance | 10 ¹² Ohms/cm ² | 10 ¹² Ohms/cm ² | ASTM D257 |
| Storage Temperature Range | <50°C | <122°F | |
| Application Temperature Range R30A Temperate R30B Tropical | +5°C to +35°C +5°C to +60°C | +41°F to +95°F +41°F to +140°F | |
| Service Temperature Range | -20°C to +75°C | -4°F to +167°F | |

* Peak Mean Adhesion

ORDERING INFORMATION

| Dimension | Sizes Available |
|-----------|--------------------------------|
| Width | 50, 100, 150, 225, 300, 450 mm |
| Length | 15 - 60 m |



Longwrap Technical Data Sheet

DESCRIPTION

Longwrap Petrolatum Tape is a 1.15 mm VOC Free, cold applied, wax based tape designed to protect piping and metal structures from damage and deterioration caused by corrosion at temperatures up to 70°C (158°F). This multi-environment coating is appropriate for use below grade in dry, damp or wet operating conditions. The Longwrap Petrolatum Tape encapsulates the surface in order to protect it, this allows for easy inspection of the substrate and repair of the coating. The tape is used with the Longwrap Paste which completely wets out the substrate surface and displaces any moisture.

Longwrap Petrolatum Tape is a highly moldable protective coating that will easily conform to irregular contours and difficult to coat structures. It is available in both a Temperate and Tropical grade.

Longwrap Petrolatum Tape contains non-toxic additives and meets the fire resistance requirements of BS 476 Part 7 and GB 8624.

SUBSTRATE COMPATIBILITY

Steel, Stainless Steel, Ductile Iron, Other Metals, FBE, PE, PP, Concrete

RECOMMENDED USE

Ideal for protecting structures such as fittings, flanges, valves, mechanical couplings, vault piping and other complex piping and metal structures.

SURFACE PREPARATION

SSPC SP-2 Hand Tool Cleaning

PRIMER

Longwrap Petrolatum Tape requires a primer to ensure maximum effectiveness of the system. Apply a minimum of 4 mils of Longwrap Paste using a gloved hand or by mechanical means. The Longwrap Petrolatum Tape can be applied immediately following the primer application.

OPTIONAL OUTERWRAP

To seal the system before burial the Longwrap Petrolatum Tape can be wrapped with Maflowrap PVC Outerwrap. This Outerwrap will add abrasion and UV resistance to the Longwrap Petrolatum Tape.

REFERENCE

Longwrap Petrolatum Tape and the Longwrap Paste together meet all of the performance criteria listed in the most recent revisions of:

NACE RP0375 (Cold-Applied Wax-Tape Coating System)
ANSI/AWWA C217

SAFETY

Refer to Material Safety Data Sheet: MSDS-Longwrap-Tape, MSDS-Longwrap-Paste

APPLICATION

Refer to Application Guidelines: AG-COLD-APPLIED-LONGWRAP-PET-WAX-TAPES

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Petrolatum Tape

Cold Applied Tapes
Petrolatum/Wax Based

LONGWRAP PETROLATUM TAPE TYPICAL DATA

| Property | Metric | US Customary | Test Method |
|--|------------------------------------|--|--------------------------|
| Color | Brown | Brown | |
| VOC Content | 0 g/l | 0 lb/gal | |
| Total Thickness | 1.15 mm | 45 mils | ASTM D1000 |
| Cathodic Disbondment, 30 days | <5 mm radius | <0.2 in ² | ASTM G8 |
| Dielectric Strength | 16 KV (2 layers) | 16 kV (2 layers) | ASTM D149 |
| Tensile Strength | 4.0 N/mm | 22.8 lb/in | ASTM D1000 |
| Fire Resistance—Surface Spread of Flame | Class 2Y Class E | Class 2Y Class E | BS 476 Part 7 GB 8624 |
| Storage Temperature Range | <50 °C | <122 °F | |
| Application Temperature Range Temperate Grade Tropical Grade | +5 °C to +45 °C +5 °C to +55 °C | +41 °F to +113 °F +41 °F to +131 °F | |
| Service Temperature Range Temperate Grade Tropical Grade | up to 55 °C up to 70 °C | up to 131 °F up to 158 °F | |

LONGWRAP PASTE TYPICAL DATA

| Property | Metric | US Customary | Test Method |
|---------------------------|------------------|------------------|-------------|
| Color | Brown | Brown | |
| VOC Content | 0 g/l | 0 lb/gal | |
| Service Temperature Range | -29 °C to 121 °C | -20 °F to 250 °F | |

ORDERING INFORMATION

Longwrap Tape

| Dimension | Sizes Available |
|-----------|-------------------------------|
| Width | 50, 75, 100, 150, 225, 300 mm |
| Length | 10 m |

Longwrap Paste

| Container Size | Weight |
|----------------|--------|
| Pail | 2.5 kg |



Longwrap

Technical Data Sheet

| | |
|--------------------------------|---|
| DESCRIPTION | <p>Longwrap Marine Petrolatum Tape is a 1.3 mm VOC Free, cold applied, wax based tape designed provide long-term corrosion protection for marine pilings, offshore riser pipes and similar marine structures, particularly in aggressive tidal and splash zone areas. The Longwrap Marine Petrolatum Tape encapsulates the surface in order to protect it, this allows for easy inspection of the substrate and repair of the coating. The tape is used with the Longwrap Paste which completely wets out the substrate surface and displaces any moisture.</p> <p>Longwrap Marine Petrolatum Tape is a highly moldable protective coating that will easily conform to irregular contours and difficult to coat structures. It is available in both a Temperate and Tropical grade.</p> |
| SUBSTRATE COMPATIBILITY | Steel, Stainless Steel, Ductile Iron, Other Metals, FBE, PE, PP, Concrete |
| RECOMMENDED USE | Ideal for protecting structures such as jetty legs, piers, tubular and box marine pilings, offshore riser pipes, splash zone pipe work and fittings, flanges, pipeline fittings and valves. |
| SURFACE PREPARATION | SSPC SP-2 Hand Tool Cleaning or water blasting |
| PRIMER | Longwrap Marine Petrolatum Tape requires a primer to ensure maximum effectiveness of the system. Apply a minimum of 4 mils of Longwrap Paste using a gloved hand or by mechanical means. The Longwrap Marine Petrolatum Tape can be applied immediately following the primer application. |
| REFERENCE | <p>Longwrap Petrolatum Tape and the Longwrap Paste together meet all of the performance criteria listed in the most recent revisions of:</p> <p style="padding-left: 40px;">NACE RP0375 (Cold-Applied Wax-Tape Coating System) ANSI/AWWA C217</p> |
| SAFETY | Refer to Material Safety Data Sheet: MSDS-Longwrap-Tape, MSDS-Longwrap-Paste |
| APPLICATION | Refer to Application Guidelines: AG-COLD-APPLIED-LONGWRAP-PET-WAX-TAPES |

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Marine Petrolatum Tape
Cold Applied Tapes
Petrolatum/Wax Based

LONGWRAP MARINE PETROLATUM TAPE TYPICAL DATA

| Property | Metric | US Customary | Test Method |
|-------------------------------|------------------|----------------------|-------------|
| Color | Brown | Brown | |
| VOC Content | 0 g/l | 0 lb/gal | |
| Total Thickness | 1.3 mm | 51 mils | ASTM D1000 |
| Cathodic Disbondment, 30 days | <5 mm radius | <0.2 in ² | ASTM G8 |
| Dielectric Strength | 16 KV (2 layers) | 16 kV (2 layers) | ASTM D149 |
| Tensile Strength | 4.0 N/mm | 22.8 lb/in | ASTM D1000 |
| Storage Temperature Range | <50°C | <122°F | |
| Application Temperature Range | +5°C to +45°C | +41°F to +113°F | |
| Service Temperature Range | up to 45°C | up to 113°F | |

LONGWRAP PASTE TYPICAL DATA

| Property | Metric | US Customary | Test Method |
|---------------------------|----------------|----------------|-------------|
| Color | Brown | Brown | |
| VOC Content | 0 g/l | 0 lb/gal | |
| Specific Gravity | 1.1 | 1.1 | ASTM D1475 |
| Service Temperature Range | -29°C to 121°C | -20°F to 250°F | |

ORDERING INFORMATION

Longwrap Marine Tape

| Dimension | Sizes Available |
|-----------|-------------------------------|
| Width | 50, 75, 100, 150, 225, 300 mm |
| Length | 10 m |

Longwrap Paste

| Container Size | Weight |
|----------------|--------|
| Pail | 2.5 kg |



Technical Data Sheet

DESCRIPTION

Longwrap Hotcote Petrolatum Tape is a 1.15 mm VOC Free, cold applied, wax based tape designed to protect piping and metal structures from damage and deterioration caused by corrosion at temperatures up to 120°C (248°F). This multi-environment coating is appropriate for use below grade in dry, damp or wet operating conditions. The Longwrap Petrolatum Tape encapsulates the surface in order to protect it, this allows for easy inspection of the substrate and repair of the coating. The tape is used with the Longwrap Paste which completely wets out the substrate surface and displaces any moisture.

Longwrap Petrolatum Tape is a highly moldable protective coating that will easily conform to irregular contours and difficult to coat structures. It is available in both a Temperate and Tropical grade.

SUBSTRATE COMPATIBILITY

Steel, Stainless Steel, Ductile Iron, Other Metals, FBE, PE, PP, Concrete

RECOMMENDED USE

Ideal for protecting structures such as fittings, flanges, valves, mechanical couplings, vault piping and other complex piping and metal structures.

SURFACE PREPARATION

SSPC SP-2 Hand Tool Cleaning

PRIMER

Longwrap Petrolatum Tape requires a primer to ensure maximum effectiveness of the system. Apply a minimum of 4 mils of Longwrap Paste using a gloved hand or by mechanical means. The Longwrap Petrolatum Tape can be applied immediately following the primer application.

OPTIONAL OUTERWRAP

To seal the system before burial the Longwrap Petrolatum Tape can be wrapped with Maflowrap PVC Outerwrap. This Outerwrap will add abrasion and UV resistance to the Longwrap Petrolatum Tape.

REFERENCE

Longwrap Petrolatum Tape and the Longwrap Paste together meet all of the performance criteria listed in the most recent revisions of:

NACE RP0375 (Cold-Applied Wax-Tape Coating System)
ANSI/AWWA C217

SAFETY

Refer to Material Safety Data Sheet: MSDS-Longwrap-Tape, MSDS-Longwrap-Paste

APPLICATION

Refer to Application Guidelines: AG-COLD-APPLIED-LONGWRAP-PET-WAX-TAPES

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TYPICAL DATA

| Property | Metric | US Customary | Test Method |
|-------------------------------|------------------|----------------------|-------------|
| Color | Red | Red | |
| VOC Content | 0 g/l | 0 lb/gal | |
| Total Thickness | 1.15 mm | 45 mils | ASTM D1000 |
| Cathodic Disbondment, 30 days | <5 mm radius | <0.2 in ² | ASTM G8 |
| Dielectric Strength | 16 KV (2 layers) | 16 kV (2 layers) | ASTM D149 |
| Tensile Strength | 4.0 N/mm | 22.8 lb/in | ASTM D1000 |
| Storage Temperature Range | <50°C | <122°F | |
| Application Temperature Range | +5°C to +50°C | +41°F to +122°F | |
| Service Temperature Range | up to 120°C | up to 248°F | |

ORDERING INFORMATION

| Dimension | Sizes Available |
|-----------|-------------------------------|
| Width | 50, 75, 100, 150, 225, 300 mm |
| Length | 10 m |



Longseal

Technical Data Sheet

DESCRIPTION

Longseal GR is an advanced waterproof membrane capable of resisting the passage of methane gas. The membrane is manufactured from an aluminum and cross-orientated HDPE film laminated to a layer of rubber modified bitumen adhesive.

Independent tests show that this advanced backing film and adhesive layer provide good technical performance for the suppression of methane and radon gases. The membrane offers good conformability for site application, but should be covered as soon as possible after installation, with a cementitious screed or similar protective layer.

The aggressive adhesive will bond at temperatures as low as 5 °C, but are resistant to melting and dripping at up to 80 °C.

RECOMMENDED USE

For general waterproofing where gas resistance is required:

1. Internal and external tanking of underground structures
2. Land-fill sites and specific geographical locations
3. Car parks and retaining walls
4. Subways and lift shafts

SUBSTRATE COMPATIBILITY

Wood, brick, concrete, metal, other construction materials

SURFACE PREPARATION

The surface to be coated should be as clean and dry as possible.

PRIMER

Longseal Primer can be used to improve the bond in some applications.

STANDARDS

Longseal GR meets the requirements of:

BS/EN13969: Flexible sheets for waterproofing—Bitumen damp proof sheets including bitumen basement tanking sheets (Certificate of Conformity of the Factory Production Control: 0836-CPR-18/F429)



SAFETY

Refer to Safety Data Sheet: SDS-LONGSEAL

APPLICATION

Refer to Application Guidelines: AG-LONGSEAL

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Longseal

Technical Data Sheet

Typical Data

| Property | Metric | Test Method |
|---|--|---|
| Total Thickness | 1.5 mm | EN 1849-1 |
| Backing Thickness | 0.1 mm | EN 1849-1 |
| Adhesive Thickness | 1.4 mm | EN 1849-1 |
| Mass per unit Area | 1.3 kg/m ² | EN 1849-1 |
| Water Tightness to Liquid Water | Watertight at 2KPa | EN 1928 Procedure A |
| Resistance to Static Load | < 5kg | EN 12730 Method B |
| Tensile Properties | Transverse: 230N/50mm, 200% Longitudinal: 230N/50mm, 180% | EN12311-1 |
| Durability of Watertightness against Artificial Aging | Watertight at 2KPa | EN1928 Procedure A (after EN1296) |
| Durability of Watertightness against chemicals | Watertight at 2KPa | EN1928 Procedure A (after EN1847) |
| Resistance to Tear (Nail Shank) | Transverse: 140N Longitudinal: 150N | EN12310-1 |
| Impact Resistance | 200mm | EN 12691 Method A |
| Low Temperature Flexibility | -25° C | EN 1109 |
| Joint Strength | Transverse: 160N Longitudinal: 170N | EN 12317-1 |
| Water Vapour Transmission | 0.22g/m ² /24hrs | EN 1931 |
| Gas Transmission Rate | Methane (single layer and joint): <10 ml/m ² /day Carbon Dioxide (single layer and joint): <10 ml/m ² /day | ISO 15105-1 |
| Reaction to Fire | Pass | EN13501-1 |
| Storage Temperature Range | <35° C | |
| Application Temperature Range | -10° C to +35° C | |
| Service Temperature Range | -20° C to +80° C | |

| Roll Details |
|--|
| 1.05 m wide by 19.05 m long (20 m ²) |
| 34 kg |



Longseal

Technical Data Sheet

DESCRIPTION

Longseal 100 is a high performance, cold applied waterproof membrane, manufactured from tough cross-orientated HDPE film to a layer of rubber modified bitumen adhesive.

The advanced backing film gives improved technical performance on tear strength and tensile strength, puncture resistance and dimensional stability. It also offers good conformability for site application. After installation the membrane should be covered as soon as possible with a cementitious screed or similar protective layer.

The aggressive adhesive will bond at temperatures as low as 5°C, but are resistant to melting and dripping at up to 80°C.

RECOMMENDED USE

For general waterproofing of:

1. Internal and external tanking of underground structures
2. Reservoirs
3. Car park and roof decks
4. Subways, lift shafts and retaining walls

SUBSTRATE COMPATIBILITY

Wood, brick, concrete, metal, other construction materials

SURFACE PREPARATION

The surface to be coated should be as clean and dry as possible.

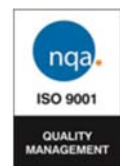
PRIMER

Longseal Primer can be used to improve the bond in some applications.

STANDARDS

Longseal 100 meets the requirements of:

BS/EN13969: Flexible sheets for waterproofing—Bitumen damp proof sheets including bitumen basement tanking sheets (Certificate of Conformity of the Factory Production Control: 0836-CPR-18/F429)



SAFETY

Refer to Safety Data Sheet: SDS-LONGSEAL

APPLICATION

Refer to Application Guidelines: AG-LONGSEAL

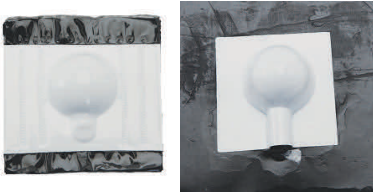
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**Longseal****Technical Data Sheet****Typical Data**

| Property | Metric | Test Method |
|---|--|---|
| Total Thickness | 1.5 mm | EN 1849-1 |
| Backing Thickness | 0.1 mm | EN 1849-1 |
| Adhesive Thickness | 1.4 mm | EN 1849-1 |
| Mass per unit Area | 1.3 kg/m ² | EN 1849-1 |
| Water Tightness to Liquid Water | Watertight at 2KPa | EN 1928 Procedure A |
| Resistance to Static Load | < 5kg | EN 12730 Method B |
| Tensile Properties | Transverse: 260N/50mm, 150% Longitudinal: 250N/50mm, 210% | EN12311-1 |
| Durability of Watertightness against Artificial Aging | Watertight at 2KPa | EN1928 Procedure A (after EN1296) |
| Durability of Watertightness against chemicals | Watertight at 2KPa | EN1928 Procedure A (after EN1847) |
| Resistance to Tear (Nail Shank) | Transverse: 140N Longitudinal: 140N | EN12310-1 |
| Impact Resistance | 200mm | EN 12691 Method A |
| Low Temperature Flexibility | -25°C | EN 1109 |
| Joint Strength | Transverse: 235N Longitudinal: 210N | EN 12317-1 |
| Water Vapour Transmission | 0.28g/m ² /24hrs | EN 1931 |
| Reaction to Fire | Pass | EN13501-1 |
| Storage Temperature Range | <35°C | |
| Application Temperature Range | -10°C to +35°C | |
| Service Temperature Range | -20°C to +80°C | |

Roll Details1.05 m wide by 19.05 m long (20 m²)

34 kg



Royston® Tapecoat®

Technical Data Sheet

DESCRIPTION

Royston Handy Cap IP and Handy Cap XL IP provide quick, field applied corrosion protection to anode and test wire leads welded onto metal substrates. The Handy Cap IP and XL IP are made using a durable plastic sheet that has a dome filled with a moldable compound to assure complete encapsulation of the item being protected. The sheet is then capped with an adhesive layer for easy and permanent application.

The Handy Cap IP and XL IP use Tapecoat's gray elastomeric adhesive with integrated primer. This exclusive formulation allows for faster application as there is no need to apply a separate primer when application temperatures are above 40°F. The Handy Cap XL IP has a similar construction as the IP, but it is designed for larger wires and welds areas.

The Handy Cap IP and XL IP can be applied by hand or using the Royston Key Hole Tool.

RECOMMENDED USE

Sealing the welded connection of a anode or test wire to a metal substrate. These products are ideal in limited access and key hole applications.

SUBSTRATE COMPATIBILITY

Steel, Stainless Steel, Ductile Iron, Other Metals, FBE, Epoxy, PE, PP

SURFACE PREPARATION

SSPC SP-3 Power Tool Cleaning or SSPC SP-6/NACE No. 3 Commercial Blast Cleaning

OPTIONAL PRIMER

Royston Handy Cap IP and Handy Cap XL IP have an integrated primer to allow for quick, easy and permanent adhesion. When required by the job specification or when application temperatures are below 40°F, a 4 mil WFT of Tapecoat Omniprime may be applied to the pipe surface to ensure the required bond.

SAFETY

Refer to Material Safety Data Sheet: MSDS-Handy Cap IP

APPLICATION

Refer to Application Guidelines: AG-HANDY-CAP

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Typical Technical Data

| Property | Handy Cap IP | Handy Cap XL IP | Test Method |
|---------------------------|-----------------------------------|-----------------------------------|-------------|
| Overall Size | 4" x 4" (101 mm x 101 mm) | 5" x 5" (127 mm x 127 mm) | |
| Plastic Sheet Size | 2.75" x 4" (70 mm x 101 mm) | 2.75" x 4" (70 mm x 101 mm) | |
| Plastic Dome Height | 0.8" (20 mm) | 1.5" (38 mm) | |
| Plastic Dome Diameter | 1.65" (42 mm) | 1.75" (44 mm) | |
| Total Thickness | 175 mils (4.44 mm) | 190 mils (4.83 mm) | ASTM D1000 |
| Sheet Thickness | 10 mils (0.25 mm) | 10 mils (0.25 mm) | ASTM D1000 |
| Adhesive Thickness | 165 mils (4.19 mm) | 180 mils (4.57mm) | ASTM D1000 |
| Adhesion to Steel | 10 lb/in (1.75 N/mm) | 10 lb/in (1.75 N/mm) | ASTM D1000 |
| Maximum Wire Size | 8 AWG (8 mm ²) | 2 AWG (35 mm ²) | |
| Holiday Detection Setting | 5000 V | 5000 V | |
| Service Temperature Range | -20°F to +140°F -29°C to +60°C | -20°F to +140°F -29°C to +60°C | |

ORDERING INFORMATION

Handy Cap IP and XL IP

| Product | Pieces Per Case | Case Weight |
|-----------------|-----------------|-------------|
| Handy Cap IP | 20 | 5# |
| Handy Cap XL IP | 10 | 6# |



Tapecoat®

Technical Data Sheet

| | |
|--------------------------------|--|
| DESCRIPTION | Tapecoat Flangecoat is a VOC Free, cold applied, compound that is designed to fill flange interfaces prior to the application of Tapecoat tapes. Flangecoat will prevent rust and corrosion from the flange interface which can cause possible shorting of the insulator gasket and deterioration of the flange and bolt structure. Flangecoat can also be used to fill tank chime gaps prior to application of the Tapecoat tape. Flangecoat comes in caulking tubes for easy application for jobs of all sizes. |
| SUBSTRATE COMPATIBILITY | Steel, Stainless Steel, Ductile Iron, Other Metals, FBE, PE, PP, Concrete |
| RECOMMENDED USE | Filling flange interface or tank chime gaps |
| PRIMER | A primer is not required prior to the application of Flangecoat. |
| SURFACE PREPARATION | SSPC SP-2 Hand Tool Cleaning, SSPC SP-3 Power Tool Cleaning or SSPC SP-6/ NACE No. 3 Commercial Blast Cleaning |
| SAFETY | Refer to Material Safety Data Sheet: MSDS-Flangecoat |
| APPLICATION | Refer to Application Guidelines: AG-COLD-APPLIED-PET-WAX-TAPES |

TYPICAL DATA

| Property | US Customary | Metric | Test Method |
|---------------------------|----------------|-----------------|-------------|
| Color | Gray | Gray | |
| VOC Content | 0 lb/gal | 0 g/l | |
| Dielectric Strength | > 300 V/mil | > 11.8 kv/mm | ASTM D149 |
| Service Temperature Range | -40° F to 180F | -40° C to 82° C | |

ORDERING INFORMATION

| Size | Units per Case |
|---------------------|----------------|
| 12 oz Caulking Tube | 12 |
| 29 oz Caulking Tube | 6 |

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Tapecoat®

Technical Data Sheet

DESCRIPTION

Tapecoat Color Coat is a 60 mil VOC Exempt, UV resistant, cold applied, self hardening, wax based tape designed to protect piping and metal structures from damage and deterioration caused by corrosion. These multi-environment coatings are appropriate for use above or below grade, in dry, damp or wet operating conditions. The Color Coat encapsulates the surface in order to protect it, this allows for easy inspection of the substrate and repair of the coating. The tape is used with the Color Coat Primer which completely wets out the substrate surface and displaces any moisture.

Color Coat is durable, aesthetically pleasing and available in a wide variety of colors including a full range of Safety Code colors. These colors include Gray, White, Yellow, Blue, Green, Red and Black.

SUBSTRATE COMPATIBILITY

Steel, Stainless Steel, Ductile Iron, Other Metals, FBE, PE, PP, Concrete

RECOMMENDED USE

Ideal for protecting structures such as bridge crossings, riser pipe, flanges, valves, and all types of piping and metal structures. Especially suited for vaults and close quarter applications because it is virtually odorless.

SURFACE PREPARATION

SSPC SP-2 Hand Tool Cleaning, SSPC SP-3 Power Tool Cleaning or SSPC SP-6/NACE No. 3 Commercial Blast Cleaning

PRIMER

Tapecoat Color Coat requires a primer to ensure maximum effectiveness of the system. Apply a minimum of 4 mils of Tapecoat Color Coat Primer using a gloved hand or by mechanical means. The Color Coat can be applied immediately following the primer application.

OPTIONAL OUTERWRAP

For increased abrasion resistance the Color Coat can be wrapped with Tapecoat Rugged Wrap. This coating is a fiberglass saturated with a moisture curing urethane. When activated with water the Rugged Wrap forms a hard, UV resistant shell protecting. Rugged Wrap is available in the same colors as the Color Coat.

REFERENCE

Color Coat and the Color Coat Primer together meet all of the performance criteria listed in the most recent revisions of:

NACE RP0375 (Cold-Applied Wax-Tape Coating System)
ANSI/AWWA C217

SAFETY

Refer to Material Safety Data Sheet: MSDS-Color Coat

APPLICATION

Refer to Application Guidelines: AG-COLD-APPLIED-PET-WAX-TAPES

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COLOR COAT TYPICAL DATA

| Property | US Customary | Metric | Test Method |
|-----------------------------------|------------------------------------|-----------------------------|--------------------------|
| Total Thickness | 60 mils | 1.52 mm | ASTM D1000 |
| Cathodic Disbondment, 30 days | <0.2 in ² | <5 mm radius | ASTM G8 |
| Dielectric Strength | Exceeds 12 kV | Exceeds 12 KV | ASTM D149 |
| Water Vapor Transmission Rate | <0.01 g/(24h*100 in ²) | <0.05 g/(h*m ²) | ASTM E96 Procedure B |
| Chemical Resistance (Vapor Phase) | Pass | Pass | ASTM G20 |
| Odor | None | None | ASTM D6165 ASTM D1296 |
| Accelerated Weather Resistance | Pass | Pass | ASTM D5894 Modified |
| Leachable Chlorides | None | None | |
| Service Temperature Range | -20°F to 160°F | -29°C to 71°C | |

COLOR COAT PRIMER TYPICAL DATA

| Property | US Customary | Metric | Test Method |
|---------------------------|----------------------|----------------------|-------------|
| Color | White | White | |
| Components | Petrolatum/Wax Blend | Petrolatum/Wax Blend | |
| VOC Content | 0 lb/gal | 0 g/l | ASTM D3960 |
| Service Temperature Range | -20°F to 160°F | -29°C to 71°C | |

ORDERING INFORMATION

Color Coat

| Roll Size | Rolls Per Case |
|------------|----------------|
| 2" x 12.5' | 24 |
| 4" x 25' | 6 |
| 6" x 25' | 4 |

CASE PACKAGING
0.5 SQ (50 ft²) per case
Case Weight: 15 lbs

Color Coat Primer

| Container Size | Containers Per Case | Weight |
|----------------|---------------------|--------------|
| 1 Gallon | 4 | 45# per Case |



Tapecoat®

Technical Data Sheet

| | |
|--------------------------------|---|
| DESCRIPTION | <p>The Tapecoat 6025HT (High Temperature) tape is a 30 mil, UV resistant, cold applied butyl based coating designed to provide protection against corrosion on pipelines with service temperatures up to 250°F (121°C). This tape is appropriate for use above or below grade and in various soil conditions.</p> <p>A minimum 50% overlap of 6025HT is required to achieve the desired long term performance on high temperature pipelines. Tapecoat 6025HT requires the use of a primer prior to application.</p> |
| RECOMMENDED USE | Appropriate for coating and reconditioning of small to moderate diameter pipes, bends, tees and metal structures as a single component coating above or below grade. |
| SUBSTRATE COMPATIBILITY | Steel, Stainless Steel, Ductile Iron, Other Metals, FBE and PE |
| SURFACE PREPARATION | <p>When using Omniprime: SSPC SP-2 Hand Tool Cleaning, SSPC SP-3 Power Tool Cleaning or SSPC SP-6/NACE No. 3 Commercial Blast Cleaning</p> <p>When using Tapecoat 7000: 2.5–4 mil anchor profile; cleaning per SSPC SP-10/NACE No. 2 Near White Blast</p> |
| OPTIONAL PRIMER | Tapecoat 6025HT requires a primer to allow for permanent adhesion. A 4 mil wet film thickness (WFT) of Tapecoat Omniprime should be applied and allowed to dry prior to application of the tape. For applications where the service temperature is expected to be above 180°F (82°C), a 6-10 mil thickness of Tapecoat 7000 Epoxy must be used as the primer. The tape should be applied to the epoxy once the epoxy is dry to the touch, but before it is fully cured. See the application guideline for more details. |
| REFERENCE | <p>Tapecoat 6025HT meets all of the performance criteria listed in the most recent revisions of:</p> <p>NACE SP0109 (Cold-Applied Laminate Polymeric Tapes) ANSI/AWWA C209 (Type II)</p> |
| SAFETY | Refer to Material Safety Data Sheet: MSDS-TC-HIGH-TEMP |
| APPLICATION | Refer to Application Guidelines: AG-COLD-APPLIED-BUTYL-TAPE |

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Typical Technical Data

| Property | US Customary | Metric | Test Method |
|---|--|---------------------------------------|--|
| Total Thickness | 30 mils | 0.76 mm | ASTM D1000 |
| Backing Thickness | 14 mils | 0.36 mm | ASTM D1000 |
| Adhesive Thickness | 16 mils | 0.41 mm | ASTM D1000 |
| Cathodic Disbondment, 180° F (82° C), 30 days, Omniprime | <0.4 in ² | <10 mm radial | ASTM G42 |
| Cathodic Disbondment, 250° F (121° C), 30 days, Tapecoat 7000 | <0.4 in ² | <10 mm radial | ASTM G42 (modified for internal heating) |
| Adhesion to Primed Steel | 15 lb/in | 2.64 N/mm | ASTM D1000 |
| Tensile Strength | 30 lb/in | 5.25 N/mm | ASTM D1000 |
| Elongation | 500% | 500% | ASTM D1000 |
| Dielectric Strength | Exceeds 12 kV | Exceeds 12 kV | ASTM D149 |
| Holiday Detection Setting | 9700 V (50% overlap) | 9700 V (50% overlap) | NACE RP0274 |
| Impact Resistance | 35 in lb (50% overlap) | 4.0 J (50% overlap) | ASTM G14 |
| Water Vapor Transmission Rate @100° F (38° C) | <0.01 g/(24h*100 in ²) | <0.005 g/(h*m ²) | ASTM E96 Method B |
| Water Absorption | <0.5% | <0.5% | ASTM D570 |
| Leachable Chlorides | None | None | |
| Service Temperature Range With Omniprime With Tapecoat 7000 | -20° F to +180° F -20° F to +250° F | -29° C to +82° C -29° C to +121° C | |

ORDERING INFORMATION

6025HT

| Roll Size | Rolls Per Case |
|-----------|----------------|
| 2" x 100' | 12 |
| 4" x 100' | 6 |
| 6" x 100' | 4 |

CASE PACKAGING

2.0 SQ (200 ft²) per case

Case Weight: 41 lbs



Maflowrap

Technical Data Sheet

| | |
|--------------------------------|---|
| DESCRIPTION | <p>Maflowrap 65/75 SET is a 1.65mm, cold applied coating designed to provide protection against corrosion and electrolysis on below grade metal substrates. The anti-corrosion bituminous rubber compound provides self sealed joints at longitudinal and end of roll overlaps, and is highly resistant to cathodic elasticity. The unique extruded PVC carrier is engineered for toughness, conformability and controlled elasticity.</p> <p>Maflowrap 65/75 SET is a Temperate grade tape.</p> |
| RECOMMENDED USE | <p>This flexible, self-adhesive pipe wrapping tape is designed for cold application to medium to large diameter pipework, and provides high resistance to soil stress. It should be used in areas where heavy or ungraded backfills are employed.</p> |
| SUBSTRATE COMPATIBILITY | <p>Steel, Stainless Steel, Ductile Iron, Other Metals, FBE, PE, Plastic Pipe</p> |
| SURFACE PREPARATION | <p>The surface to be wrapped should be as clean as possible. Remove metal burrs and other projections, and all loose matter, any existing coatings, dirt, rust and foreign debris. Ensure all oil and grease is removed with solvent.</p> <p>Inspect old pipework or factory coatings and remove any loose coating back to sound material with wire brushing. Where new or existing steelwork has been subjected to chemical attack, salt spray, fungi or bacteria other methods may be used.</p> |
| PRIMER | <p>Maflowrap 65/75 SET requires a primer to allow for permanent adhesion. Maflowrap Primer B400 should be applied and allowed to dry prior to application of the tape. See the application guideline for more details.</p> |
| REFERENCE | <p>Maflowrap 65/75 SET meets all of the performance criteria listed in the most recent revision of:</p> <p>NACE SP0109 (Cold-Applied Laminate Polymeric Tapes)</p> |
| SAFETY | <p>Refer to Safety Data Sheet: SDS-MAFLOWRAP</p> |
| APPLICATION | <p>Refer to Application Guidelines: AG-COLD-APPLIED-BITUMEN-TAPE</p> |

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Typical Data

| Property | Metric | US Customary | Test Method |
|-------------------------------|---------------------------------------|---------------------------------------|-------------------------|
| Backing Colour | Black | Black | ASTM D1000 |
| Total Thickness | 1.65 mm | 65 mils | ASTM D1000 |
| Backing Thickness | 0.75 mm | 29.5 mils | ASTM D1000 |
| Adhesive Thickness | 0.90 mm | 35.4 mils | ASTM D1000 |
| Cathodic Disbondment, 30 days | <10 mm radial | <0.4 in ² | ASTM G8 |
| Adhesion to Self* | 3.0 N/mm | 18.8 lb/in | ASTM D1000 |
| Adhesion to Primed Steel* | 3.0 N/mm | 18.8 lb/in | ASTM D1000 |
| Tensile Strength | 21.0 N/mm ² | 3050 psi | ASTM D638 |
| Tensile Modulus | 32.0 N/mm ² | 4650 psi | ASTM D638 |
| Tear Resistance | 35 N | 7.8 lbf | ASTM D1004 |
| Elongation | 270% | 270% | ASTM D638 |
| Dielectric Strength | 40 kV | 40 kV | BS2782 |
| Holiday Detection Setting | 10 kV | 10 kV | NACE RP0274 |
| Impact Resistance | 10 J | 87 in lb | ASTM G13 |
| Water Vapor Permeability | 0.36 g/(24h*m ²) | 0.025 g/(24h*100 in ²) | ASTM E96 Procedure B |
| Water Absorption | <0.5% | <0.5% | ASTM D570 |
| Insulation Resistance | 10 ¹² Ohms/cm ² | 10 ¹² Ohms/cm ² | ASTM D257 |
| Storage Temperature Range | <50°C | <122°F | |
| Application Temperature Range | +5°C to +35°C | +41°F to +95°F | |
| Service Temperature Range | -20°C to +75°C | -4°F to +167°F | |

* Peak Mean Adhesion

ORDERING INFORMATION

| Dimension | Sizes Available |
|-----------|--------------------------------|
| Width | 50, 100, 150, 225, 300, 450 mm |
| Length | 15 - 60 m |



Maflowrap

Technical Data Sheet

| | |
|--------------------------------|---|
| DESCRIPTION | <p>Maflowrap 50/40 SET is a 1.10mm, cold applied coating designed to provide protection against corrosion and electrolysis on below grade metal substrates. The anti-corrosion bituminous rubber compound provides self sealed joints at longitudinal and end of roll overlaps, and is highly resistant to cathodic elasticity. The unique extruded PVC carrier is engineered for toughness, conformability and controlled elasticity.</p> <p>Maflowrap 50/40 SET is a Temperate grade tape.</p> |
| RECOMMENDED USE | A medium duty, cold-applied PVC pipe wrap for use on buried and submarine line pipe. For field welds, fabrications, bends and fittings. |
| SUBSTRATE COMPATIBILITY | Steel, Stainless Steel, Ductile Iron, Other Metals, FBE, PE, Plastic Pipe |
| SURFACE PREPARATION | <p>The surface to be wrapped should be as clean as possible. Remove metal burrs and other projections, and all loose matter, any existing coatings, dirt, rust and foreign debris. Ensure all oil and grease is removed with solvent.</p> <p>Inspect old pipework or factory coatings and remove any loose coating back to sound material with wire brushing. Where new or existing steelwork has been subjected to chemical attack, salt spray, fungi or bacteria other methods may be used.</p> |
| PRIMER | Maflowrap 50/40 SET requires a primer to allow for permanent adhesion. Maflowrap Primer B400 should be applied and allowed to dry prior to application of the tape. See the application guideline for more details. |
| REFERENCE | <p>Maflowrap 50/40 SET meets all of the performance criteria listed in the most recent revision of:</p> <p>NACE SP0109 (Cold-Applied Laminate Polymeric Tapes)</p> |
| SAFETY | Refer to Safety Data Sheet: SDS-MAFLOWRAP |
| APPLICATION | Refer to Application Guidelines: AG-COLD-APPLIED-BITUMEN-TAPE |

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Typical Data

| Property | Metric | US Customary | Test Method |
|-------------------------------|---------------------------------------|---------------------------------------|-------------------------|
| Backing Colour | Black | Black | ASTM D1000 |
| Total Thickness | 1.10 mm | 43 mils | ASTM D1000 |
| Backing Thickness | 0.38 mm | 15 mils | ASTM D1000 |
| Adhesive Thickness | 0.72 mm | 28 mils | ASTM D1000 |
| Cathodic Disbondment, 30 days | <10 mm radial | <0.4 in ² | ASTM G8 |
| Adhesion to Self* | 3.0 N/mm | 18.8 lb/in | ASTM D1000 |
| Adhesion to Primed Steel* | 3.0 N/mm | 18.8 lb/in | ASTM D1000 |
| Tensile Strength | 16.0 N/mm ² | 2325 psi | ASTM D638 |
| Tensile Modulus | 10.5 N/mm ² | 1525 psi | ASTM D638 |
| Tear Resistance | 20 N | 4.5 lbf | ASTM D1004 |
| Elongation | 300% | 300% | ASTM D638 |
| Dielectric Strength | 30 kV | 30 kV | BS2782 |
| Holiday Detection Setting | 8 kV | 8 kV | NACE RP0274 |
| Impact Resistance | 8 J | 70 in lb | ASTM G13 |
| Water Vapor Permeability | 0.36 g/(24h*m ²) | 0.025 g/(24h*100 in ²) | ASTM E96 Procedure B |
| Water Absorption | <0.5% | <0.5% | ASTM D570 |
| Insulation Resistance | 10 ¹² Ohms/cm ² | 10 ¹² Ohms/cm ² | ASTM D257 |
| Storage Temperature Range | <50°C | <122°F | |
| Application Temperature Range | +5°C to +35°C | +41°F to +95°F | |
| Service Temperature Range | -20°C to +75°C | -4°F to +167°F | |

* Peak Mean Adhesion

ORDERING INFORMATION

| Dimension | Sizes Available |
|-----------|--------------------------------|
| Width | 50, 100, 150, 225, 300, 450 mm |
| Length | 15 - 60 m |



Tapecoat®

Technical Data Sheet

DESCRIPTION

Tapecoat T-Tape is a 65 mil, cold applied coating designed to provide protection against corrosion and electrolysis on below grade irregular fittings and hard to coat metal substrates. Tapecoat T-Tape has a thin, flexible backing laminated to 62 mils of highly aggressive adhesive. This coating system provides a method of coating pipe structures that would normally require the use of a liquid coating or mastic. No waiting time, cure time or drying time is required as T-Tape can be backfilled immediately after application.

Tapecoat T-Tape has an integrated primer; the primer is in the adhesive. This exclusive formulation allows for faster application as there is no need to apply a separate primer when application temperatures are above 40° F. The Tapecoat T-Tape coating system is VOC free when applied without a primer. When used with Tapecoat Omniprime the coating system will meet even the strictest environmental laws.

RECOMMENDED USE

Appropriate for coating below grade bends, tees and metal structures.

SUBSTRATE COMPATIBILITY

Steel, Stainless Steel, Ductile Iron, Other Metals, FBE, PE, PP

SURFACE PREPARATION

SSPC SP-2 Hand Tool Cleaning, SSPC SP-3 Power Tool Cleaning or SSPC SP-6/ NACE No. 3 Commercial Blast Cleaning

OPTIONAL PRIMER

Tapecoat T-Tape has an integrated primer to allow for quick, easy and permanent adhesion. When required by the job specification or when application temperatures are below 40° F, a 4 mil WFT of Tapecoat Omniprime may be applied to the pipe surface to ensure the required bond.

REFERENCE

Tapecoat T-Tape meets all of the performance criteria listed in the most recent revisions of:

- NACE SP0109 (Cold-Applied Laminate Polymeric Tapes)
- ANSI/AWWA C209 (Type II)

SAFETY

Refer to Material Safety Data Sheet: MSDS-TC-GRAY

APPLICATION

Refer to Application Guidelines: AG-COLD-APPLIED-ELASTOMERIC-TAPE

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Typical Technical Data

| Property | US Customary | Metric | Test Method |
|---|------------------------------------|-----------------------------|-------------------|
| Total Thickness | 65 mils | 1.65 mm | ASTM D1000 |
| Backing Thickness | 3 mils | 0.08 mm | ASTM D1000 |
| Adhesive Thickness | 62 mils | 1.57 mm | ASTM D1000 |
| Cathodic Disbondment, 30 days | <0.4 in ² (No Primer) | <10 mm radial (No Primer) | ASTM G8 |
| Adhesion to Primed Steel | Exceeds Backing Strength | Exceeds Backing Strength | ASTM D1000 |
| Adhesion to Backing (Self) | Exceeds Backing Strength | Exceeds Backing Strength | ASTM D1000 |
| Tensile Strength | 11 lbf/in | 1.9 N/mm | ASTM D1000 |
| Elongation | 1000% | 1000% | ASTM D1000 |
| Dielectric Strength | Exceeds 12 kV | Exceeds 12 kV | ASTM D149 |
| Holiday Detection Setting | 10000 V | 10000 V | NACE RP0274 |
| Water Vapor Transmission Rate @100° F (38° C) | <0.01 g/(24h*100 in ²) | <0.05 g/(h*m ²) | ASTM E96 Method B |
| Water Absorption | <0.5% | <0.5% | ASTM D570 |
| Leachable Chlorides | None | None | |
| Service Temperature Range | -20° F to +140° F | -29° C to +60° C | |

ORDERING INFORMATION

T-Tape

| Roll Size | Rolls Per Case |
|-----------|----------------|
| 2" x 25' | 12 |
| 4" x 25' | 6 |
| 6" x 25' | 4 |

CASE PACKAGING

0.5 SQ (50 ft²) per case

Case Weight: 23 lbs



Tapecoat®

Technical Data Sheet

DESCRIPTION

Tapecoat M50 is a 50 mil black or gray polypropylene mesh-backed, cold applied, below grade coating designed to provide superior soil stress resistance. The coating provides protection against corrosion and electrolysis on metal substrates. The mesh backing allows the coating to conform well to the pipe surface but does not stretch or elongate which gives the M50 its exceptional strength against soil stress.

Tapecoat M50 has an integrated primer; the primer is in the adhesive. This exclusive formulation allows for faster application as there is no need to apply a separate primer when application temperatures are above 40°F. The Tapecoat M50 coating system is VOC free when applied without a primer. When used with Tapecoat Omniprime the coating system will meet even the strictest environmental laws.

RECOMMENDED USE

Appropriate for coating and reconditioning small to large diameter pipe, bends and metal structures, as a single component coating below grade. M50 is especially well suited for reconditioning field coated pipe and coating pipe in areas with high soil stress conditions.

SUBSTRATE COMPATIBILITY

Steel, Stainless Steel, Ductile Iron, Other Metals, FBE, PE, PP

SURFACE PREPARATION

SSPC SP-2 Hand Tool Cleaning, SSPC SP-3 Power Tool Cleaning or SSPC SP-6/NACE No. 3 Commercial Blast Cleaning

OPTIONAL PRIMER

Tapecoat M50 has an integrated primer to allow for quick, easy and permanent adhesion. When required by the job specification or when application temperatures are below 40°F, a 4 mil WFT of Tapecoat Omniprime may be applied to the pipe surface to ensure the required bond.

REFERENCE

Tapecoat M50 meets all of the performance criteria listed in the most recent revisions of:

NACE SP0109 (Reinforced Polymeric Tapes)

SAFETY

Refer to Material Safety Data Sheet: MSDS-TC-GRAY

APPLICATION

Refer to Application Guidelines: AG-COLD-APPLIED-ELASTOMERIC-TAPE

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Typical Technical Data

| Property | US Customary | Metric | Test Method |
|-------------------------------|------------------------------------|-----------------------------|----------------------|
| Total Thickness | 50 mils | 1.27 mm | ASTM D1000 |
| Backing Thickness | 10 mils | 0.25 mm | ASTM D1000 |
| Adhesive Thickness | 40 mils | 1.02 mm | ASTM D1000 |
| Cathodic Disbondment, 30 days | <0.4 in ² (No Primer) | <10 mm radial (No Primer) | ASTM G8 |
| Adhesion to Primed Steel | 12.5 lbf/in | 2.20 N/mm | ASTM D1000 |
| Adhesion to Backing (Self) | 8 lbf/in | 1.41 N/mm | ASTM D1000 |
| Tensile Strength | 75 lbf/in | 13.1 N/mm | ASTM D1000 |
| Elongation | 10% | 10% | ASTM D1000 |
| Dielectric Strength | Exceeds 12 kV | Exceeds 12 kV | ASTM D149 |
| Holiday Detection Setting | 8800 V | 8800 V | NACE RP0274 |
| Impact Resistance | 14 in lb | 1.6 J | ASTM G14 |
| Puncture Resistance | 200 lbf | 890 N | ASTM D1000 |
| Water Vapor Transmission Rate | <0.01 g/(24h*100 in ²) | <0.05 g/(h*m ²) | ASTM E96 Method B |
| Water Absorption | <0.5% | <0.5% | ASTM D570 |
| Leachable Chlorides | None | None | |
| Service Temperature Range | -20°F to +140°F | -29°C to +60°C | |

M50 can be ordered with a gray and black polypropylene mesh backing. The M50 Black is wound so that the release liner is on the inside of the roll (mesh facing out). The M50 Gray is wound so that the release liner is on the outside of the roll (adhesive facing out).

ORDERING INFORMATION

M50 Black and Gray

| Roll Size | Rolls Per Case |
|-----------|----------------|
| 2" x 50' | 12 |
| 4" x 50' | 6 |
| 6" x 50' | 4 |

CASE PACKAGING

1.0 SQ (100 ft²) per case
Case Weight: 35 lbs



Tapecoat®

Technical Data Sheet

DESCRIPTION

Tapecoat H35 and H50 are UV resistant, cold applied coatings designed to provide protection against corrosion and electrolysis on metal substrates. These coatings are appropriate for use above or below grade and in various soil conditions.

Tapecoat H35 and H50 have an integrated primer; the primer is in the adhesive. This exclusive formulation allows for faster application as there is no need to apply a separate primer when application temperatures are above 40°F. The Tapecoat H35 and H50 coating system is VOC free when applied without a primer. When used with Tapecoat Omniprime® the coating system will meet even the strictest environmental laws.

RECOMMENDED USE

Appropriate for coating and reconditioning small to moderate diameter pipe, bends, tees and metal structures, as a single component coating above or below grade.

SUBSTRATE COMPATIBILITY

Steel, Stainless Steel, Ductile Iron, Other Metals, FBE, PE, PP

SURFACE PREPARATION

SSPC SP-2 Hand Tool Cleaning, SSPC SP-3 Power Tool Cleaning or SSPC SP-6/NACE No. 3 Commercial Blast Cleaning

OPTIONAL PRIMER

Tapecoat H35 and H50 have an integrated primer to allow for quick, easy and permanent adhesion. When required by the job specification or when application temperatures are below 40°F, a 4 mil WFT of Tapecoat Omniprime may be applied to the pipe surface to ensure the required bond.

REFERENCE

Tapecoat H35 and H50 meet all of the performance criteria listed in the most recent revisions of:

NACE SP0109 (Cold-Applied Laminate Polymeric Tapes)
ANSI/AWWA C209 (Type II)

SAFETY

Refer to Material Safety Data Sheet: MSDS-TC-GRAY

APPLICATION

Refer to Application Guidelines: AG-COLD-APPLIED-ELASTOMERIC-TAPE

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Typical Technical Data

| Property | US Customary | Metric | Test Method |
|---|--|--|-------------------|
| Total Thickness | 35 mils (H35) 50 mils (H50) | 0.89 mm (H35) 1.27 mm (H50) | ASTM D1000 |
| Backing Thickness | 8 mils (H35) 14 mils (H50) | 0.20 mm (H35) 0.36 mm (H50) | ASTM D1000 |
| Adhesive Thickness | 27 mils (H35) 36 mils (H50) | 0.69 mm (H35) 0.91 mm (H50) | ASTM D1000 |
| Cathodic Disbondment, 30 days | <0.4 in ² (No Primer) | <10 mm radial (No Primer) | ASTM G8 |
| Adhesion to Primed Steel | 15 lb/in | 2.63 N/mm | ASTM D1000 |
| Tensile Strength | 30 lb/in (H35) 50 lb/in (H50) | 5.25 N/mm (H35) 8.75 N/mm (H50) | ASTM D1000 |
| Elongation | 650% (H35) 700% (H50) | 650% (H35) 700% (H50) | ASTM D1000 |
| Dielectric Strength | Exceeds 12 kV | Exceeds 12 kV | ASTM D149 |
| Holiday Detection Setting | 7400 V (H35) 8800 V (H50) | 7400 V (H35) 8800 V (H50) | NACE RP0274 |
| Impact Resistance | 40 in lb (H35 double wrap) 34 in lb (H50 single wrap) | 4.6 J (H35 double wrap) 3.8 J (H50 single wrap) | ASTM G14 |
| Water Vapor Transmission Rate @100° F (38° C) | <0.005 g/(24h*100 in ²) | <0.003 g/(h*m ²) | ASTM E96 Method B |
| Water Absorption | <0.5% | <0.5% | ASTM D570 |
| Leachable Chlorides | None | None | |
| Service Temperature Range | -20° F to +140° F | -29° C to +60° C | |

The standard backing color is gray, but black and white are also available upon request.

ORDERING INFORMATION

H35

| Roll Size | Rolls Per Case |
|-----------|----------------|
| 2" x 75' | 12 |
| 4" x 75' | 6 |
| 6" x 75' | 4 |

CASE PACKAGING
1.5 SQ (150 ft²) per case
Case Weight: 36 lbs

H50

| Roll Size | Rolls Per Case |
|-----------|----------------|
| 2" x 50' | 12 |
| 4" x 50' | 6 |
| 6" x 50' | 4 |

CASE PACKAGING
1 SQ (100 ft²) per case
Case Weight: 31 LBS



Technical Data Sheet

| | |
|--------------------------------|---|
| DESCRIPTION | Plasgard 410 Epoxy is a two part, 100% solids, high temperature coating designed to provide protection against corrosion on pipelines with service temperatures up to 120°C (248°F). Plasgard 410 can be used as a below grade or under water standalone coating. The Plasgard 410 was designed to provide superior adhesion to wet surfaces and, fresh and salt water submerged surfaces. Plasgard 410 is a fast curing epoxy allowing for backfill in 4-5 hours at 23°C and 50% RH. |
| SUBSTRATE COMPATIBILITY | Steel, Stainless Steel, Ductile Iron, other metals, FBE |
| RECOMMENDED USE | Ideal for protecting girth welds, fittings, flanges, valves, and all types of piping and metal structures. |
| SURFACE PREPARATION | SSPC SP-10/NACE No. 2/ SA 2 1/2 Near-White Blast Cleaning 2-4 mil surface profile |
| PRIMER | None Required |
| REFERENCE | Plasgard 410 meets all of the performance criteria listed in the most recent revisions of: NACE RP0105 ANSI/AWWA C210 |
| SAFETY | Refer to Material Safety Data Sheet: MSDS-PLASGARD-410-RESIN; MSDS-PLASGARD-410-HARDENER |
| APPLICATION | Refer to Application Guidelines: AG-PLASGARD-EPOXIES |

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TYPICAL DATA

| Property | Metric | US Customary | Test Method |
|---|---|--|-------------------------|
| Color | Red or Black | Red or Black | |
| Coating Thickness, per coat (2 coat minimum) | 250 μm minimum | 10 mil minimum | |
| VOC Content | 0 g/l | 0 lb/gal | |
| Pot Life @ 70°F (21°C), 50% RH | 40 minutes | 40 minutes | |
| Time to Backfill @ 70°F (21°C), 50% RH | 3-4 Hours | 3-4 Hours | |
| Cathodic Disbondment, 30 days | <10 mm radial | <0.4 in ² | ASTM G8 |
| Pull Off Adhesion to Steel | > 10.4 MPa | >1500 psi | ASTM D4541 Type II |
| Shore D Hardness | 85-90 | 85-90 | ASTM D2240 |
| Dielectric Strength | Exceeds 10 kV (500 μm) | Exceeds 10 kV (20 mil) | ASTM D149 |
| Holiday Detection Setting | 5500 V (500 μm) | 5500 V (20 mil) | NACE RP0274 |
| Water Absorption | <0.5% | <0.5% | ASTM D570 |
| Water Vapor Transmission Rate | <0.05 g/(h*m ²) (635 μm) | <0.01 g/(24h*100 in ²) (25 mil) | ASTM E96 Procedure B |
| Chemical Resistance | Pass | Pass | ASTM G20 |
| Application Temperature Range | 5°C to 50°C | 40°F to 122°F | |
| Service Temperature Range | Up to 120°C | up to 248°F | |

ORDERING INFORMATION

| | Kit Size | Kits Per Case |
|-------------------|------------|---------------|
| Brush Application | 0.75 litre | 8 |
| Spray Application | 5 litre | 4 |