INTRODUCTION

**STI 5600 C.P Tape** is designed to provide corrosion protection & mechanical resistance to metal pipe, underground steel pipes, and bare bends & bare pipe joints of PE, Epoxy & PP coated pipes by hand or machine application. The main material used is a stabilized polyethylene backing and butyl rubber based synthetic elastomer adhesive.

**STI 5700 H.S Tape** is a hand wrapped heat shrinkable tape designed for corrosion protection of straight pipes, fittings, bends, elbows and other irregular configurations. It has a cross-linked polyethylene backing coated with butyl rubber based thermoplastic adhesive. When heated the backing layer shrinks and the adhesive flows and forms a reliable corrosion protection seal onto metal and adjacent coating surfaces.

**STI 5750 H.S.S Sheet** is a heat shrinkable wrap around sleeve sheet designed for corrosion protection of field welded joints of plastic coated steel pipelines. It has a thick cross-linked polyethylene backing coated with butyl rubber based mastic sealant. When heated the backing layer shrinks and the sealant flows and forms a reliable corrosion protection seal onto metal and adjacent coating surfaces.

**STI 5800 Petrolatum Tape** is composed mainly of petrolatum, tannin, inert silica and special anti-corrosive agents, it will never evaporate, harden and its viscosity will never change. It will never crack or peel off.

TECHNICAL SUPPORT

This selection guide covers the best practice for most situations. If you need additional information please contact our R&D Center. Based on our engineered solutions we can advise on specific details, application and engineering.
 Heat Shrinkable Tape / Sheet

Products Summary

<table>
<thead>
<tr>
<th>STI Code</th>
<th>Product Name</th>
<th>Service temp. (°C)</th>
<th>Water Vapor Permeance</th>
<th>Tensile Strength</th>
<th>Elongation</th>
</tr>
</thead>
<tbody>
<tr>
<td>5600 C.P Tape</td>
<td>-40 ~ 85</td>
<td>≤ 0.07 perms (0.086 g/m²·h)</td>
<td>≥ 6.5 Kg/cm</td>
<td>≥ 550 %</td>
<td></td>
</tr>
<tr>
<td>5700 H.S Tape</td>
<td>-40 ~ 85</td>
<td>≤ 0.07 perms (0.086 g/m²·h)</td>
<td>≥ 154.7 Kg/cm²</td>
<td>≥ 400 %</td>
<td></td>
</tr>
<tr>
<td>5750 H.S.S Sheet</td>
<td>-40 ~ 85</td>
<td>≤ 0.07 perms (0.086 g/m²·h)</td>
<td>≥ 154.7 Kg/cm²</td>
<td>≥ 400 %</td>
<td></td>
</tr>
<tr>
<td>5800 Petrolatum Tape</td>
<td>-40 ~ 80</td>
<td>≤ 0.07 perms (0.086 g/m²·h)</td>
<td>≥ 4,400 N/m</td>
<td>≥ 45 %</td>
<td></td>
</tr>
</tbody>
</table>

Application

1. STI 5600 C.P Tape (Corrosion Protection Tape)

   1) Remove rust, dirt, moisture, burr, grease, knurl & all foreign matters completely by dry cloth, scrapping, wire brushing, disc grinding, sand or grit blasting. Stir primer container well and apply it on the surface evenly by brush or roller. Allow curing for about 10 min.

   2) Apply spirally STI 5600 C.P Tape, and tension should be enough to obtain conformability to surface being applied. Minimum 25mm overlap, but 50% overlap (Equal to two layers) recommended for optimum performance. According to specification of the project, inner and outer tape can be applied.

   3) In case of welded joints, apply primer on all surface to be wrapped and then STI 5600F M.F Tape (Mastic Filler Tape) along with weld beads and press firmly. Beginning at a point 25 ~ 50 mm backward from end of left bare pipe, apply primer spirally to a point 25 ~ 50 mm forward from end of right bare pipe.

2. STI 5700 H.S Tape (Heat Shrinkable Tape)
Heat Shrinkable Tape / Sheet

1) No special skills, equipment’s, patch closure nor is primer needed. Its superior flexibility provides easy and reliable application for irregular configurations of fittings, bends and elbows and small diameter of straight pipes.

2) Wrap spirally the tape over foreign matters-free and preheated surface, beginning at least 25~50 mm onto pipe coating.

3) Wrap the tape with enough tension to obtain conformability and with minimum 50% of overlapping, while removing the release liner

4) Warm the end part of the tape and press down firmly.

5) Using a torch, start at the edge of the tape and heat circumferentially around the coated pipe.

6) Finish off by heating over the entire tape vertically to ensure a uniform adhesion and by using a roller or gloved hands to remove wrinkle and air.

3. STI 5750 H.S.S Sheet (Heat Shrinkable Sleeve Sheet)

1) No special skills, equipment’s are needed. STI 5750 H.S.S Sheet is installed in minutes with a propane torch.

2) Wrap the STI 5750 H.S.S Sheet around foreign matters-free, preheated surface. Fix the center of preheated patch closure on the overlapped end and start to heat STI 5750 H.S.S Sheet in the center.

3) Move the torch around pipe circumferentially to heat the left and the right half of STI 5750 H.S.S Sheet.

4) Finish off by heating vertically over the entire STI 5750 H.S.S Sheet to ensure a uniform adhesion and by using a roller or gloved hands to remove wrinkle and air.

4. STI 5800 Petrolatum Tape

The application of STI 5800 Petrolatum Tape series is very simple, even if un-skilled man easy to apply it.

1) SURFACE TREATMENT - Remove rust with wire-brush and wipe soil with rags.

2) PETROLATUM PASTE COATING - Apply regularly STI 5800PS Petrolatum Paste by hands with 300 ~ 500 g/m² range.

3) PETROLATUM MASTIC FILLER - Apply on complicated, uneven surface as filler in Valve, Flange, Unevenness because came out space when tape wrapping in Valve, Flange, Unevenness.

4) PETROLATUM TAPE WRAPPING - Overlap above 15 min (30 ~ 50 %). After swathing, level the tape with stroking by hands to remove the joints according to the line.

5) PVC FIRM TAPE WRAPPING - PVC FIRM TAPE is used in place where finishing. Various colors are available for indication by environmental situation.