

## Temflex™ 1100, 1100P

### Vinyl Corrosion Protection Tape

#### Product Description

Temflex™ 1100 and 1100P (Printed) tapes are made of tough, polyvinyl chloride (PVC), especially formulated for corrosion protection of pipes, conduits and metallic cable jackets. They are easy to apply and provide excellent protection against abrasion, puncture, corrosion and electrolytic action both above and below ground.

These tapes resist corrosion caused by acids (e.g. sulfuric, hydrochloric, phosphoric), alkalis and other corrosive materials, including compounds of chlorine, bromine, sodium and lithium. They also resist salt water and sunlight.

Features include:

Resistance to galvanic and electrolytic action

Excellent abrasion resistance

Good impact and tear resistance

Resistance to weather-induced cracking and checking

High electrical strength

Excellent insulation resistance

#### Applications

Corrosion protection above and below ground

Corrosion protection of conduit, pipe and systems subjected to abrasion, corrosion, electrolytic action

Corrosion protection of fittings and joints on mill coated pipe

Moisture sealing of threaded conduit joint.

#### Typical Data/Physical Properties

**Dielectric Strength\*** 10,000 Volts

**Insulation Resistance\***  
>10<sup>6</sup> Megohms

**Thickness\*** 10 mils

**Elongation\*** 200%

**Breaking Strength\*** 25 lbs/in

**Adhesion\***  
To Steel 20 oz/in  
To backing 20 oz/in

**Conf. Factor at 0°C**  
Fed. Std. L-T-1512A  
50 lbs/in passed

**Water Vapor Trans. Rate**  
ASTM D-3833  
(Method 70.1)  
g/100 in.<sup>2</sup>(645cm<sup>2</sup>)/24 hrs 1.3

\*ASTM D-1000

Note: These are typical properties and should not be used for specification purposes.

#### Specifications

##### Product

The plastic tape is based on polyvinyl chloride (PVC) and/or its copolymers and has a specially formulated rubber-based, pressure-sensitive adhesive. The tape must be applicable at temperatures ranging from 10°F to 120°F (-12°C to 49°C) without loss of physical or electrical properties. The tape shall be classified for, and have the capabilities to be used in, both indoor and outdoor environments. The tape shall be compatible with all standard mill coated pipe and must not crack, split, slip or flag when exposed to various environments.

#### Engineering/Architectural

All pipe, as indicated on drawings and listings, shall be protected by wrapping with a 0.010" (0,254 mm) vinyl plastic-backed, conformable, pressure-sensitive tape having acceptable physical and electrical properties per ASTM Test Methods. Temflex™ Corrosion Protection Tape, with application according to manufacturer's recommended procedures, is to be used.

#### Installation Techniques

Clean and dry surface to be wrapped. Remove all oil and grease using a rag and suitable solvent. Remove weld beads and cover with one layer of Temflex™ Corrosion Protection Tape before spiral wrapping. Clean old or superficially rusted pipe with wire brush or sand blast before priming with Scotchrap™ Pipe Primer. Void areas and sharp edges are to be padded with Scotchrap™ Pipe Insulation Putty and covered with one layer of Temflex™ Corrosion Protection Tape before spiral wrapping. Temflex™ Tape should be spirally wrapped the length of the pipe using one-half lap for double thickness. If pipe is to be buried, application of a coating of Scotchrap™ Pipe Primer is recommended before tape is applied. Under severe backfilling conditions, rock shield or roofing felt may be used as additional protection.

#### Availability

Temflex™ Corrosion Protection Tape is available from your local 3M authorized distributor.