

PITTWRAP® SS JACKETING PRODUCT DATA SHEET

IMPORTANT: MATERIAL SAFETY DATA SHEETS ARE AVAILABLE AND SHOULD BE READ BEFORE USING THIS PRODUCT.

DESCRIPTION:

PITTWRAP® SS jacketing is a 1.78mm (70 mil) thick self-sealing, modified bituminous membrane for protecting underground FOAMGLAS® insulation systems with outer surface temperatures at or below 77°C (170°F). Manual pressure seals the jacketing without the use of a torch or heater. PITTWRAP® SS jacketing may also be factory-applied on the insulation.

PITTWRAP® SS jacketing consists of a polymer modified bituminous compound reinforced with a glass fabric and a 0.03mm (1 mil) aluminum top film and release paper backing.

*TYPICAL PROPERTIES:

PROPERTY		ASTM TEST
Color:	Rose	
Thickness: mm, (mils)	1.78, (70)	
Weight: kg/m ² , (lbs/ft ²)	2.35 (0.48)	
Width: cm, (in)	60 (23.5)	
Roll length: m, (ft)	15.24 (50)	
Roll Area: m ² , (ft ²)	9.1 (98)	
Roll Weight: kg (lbs)	21.8 (48)	
Tensile Strength: kg/cm, (lbs/in) @ 25.6°C (78°F)	18, (100)	
Lap adhesion, kg/cm, (lbs/in)	4.5 (25)	
Application Temperature, min without Primer: °C, (°F)	10, (50)	
with Primer: °C, (°F)	-7, (20)	
Service Temperature limits at the jacket: °C, (°F)	-32 to 77, (-25 to 170)	
Water Vapor Permeability ng/Pa•s•m, (perm-in)	0.003, (0.002)	E96
Butt Strips:		
Width: cm, (in)	10.2, (4)	
Roll Length: m, (ft)	15.24 (50)	

* Properties subject to change. Consult Pittsburgh Corning.

RESISTANCE:

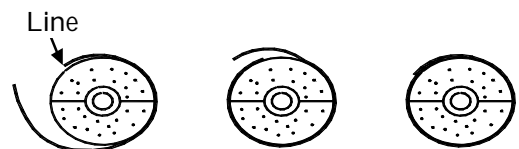
Water: good
 Alkalis: good
 Acids: good
 Petroleum Solvents: poor
 Fire: combustible

This is a guide. Since conditions vary, consult Pittsburgh Corning if in doubt about chemical resistance.

FIELD APPLICATION:

Insulation should be secured to the pipe with 2 pieces per section of fiberglass reinforced strapping tape overlapped at least 50%. Cut a length of jacketing to provide at least a 50mm (2 in.) overlap at the longitudinal seam. Slit the release paper at this overlap, taking care not to slit jacket. Strike a horizontal line along the insulation convenient for starting jacket positioning and to insure a uniform lap line. Remove release paper except at the overlap. Dirt and dust must be kept off jacketing. Place the end of the jacketing containing the release paper in alignment with the struck line. See sketches below. The first piece of jacketing should be straight. Smooth the remaining jacket into place working around the pipe cover. Once the jacketing is completely around the insulation, lift the overlap and pass the opposite end beneath the overlap. Remove the remaining release paper on the overlap and press tightly to seal the longitudinal joint.

Guide



position jacketing at guide line

wrap, lift overlap, remove release paper

seal

Any gaps or folds should be removed and resealed immediately. An ordinary wallpaper seam roller has been found to be particularly useful for applying pressure to the overlap areas. Note: Cure occurs in a few hours after seal is made

When temperature is below 10°C (50°F), or if surfaces are dirty, apply a thin coat of primer by brush to the bituminous surface in the overlap area. If temperature is below 10°C (50°F) and surfaces are clean, the overlap may be warmed with a heater or torch, taking care not to burn through the jacket.

The second and succeeding sections are placed in the same manner, tightly butting the edges. All longitudinal joints should be started on the same line to facilitate later placement of butt strips.

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BUTT STRIPS:

Cut a length of butt strip at least 6.4 cm (2.5 in.) longer than the outer circumference of the jacketed pipe cover. Apply a bead of PITTSEAL® 444N sealant (FI-164) along the edge of the longitudinal joint the width of the butt strip. Remove the release paper from the end of the butt strip and embed the end in the sealant. Smooth the butt strip into place working down and under the cover, then up and over, finally overlapping the embedded end. Press and roll the overlap to provide a seal. After application, inspect all joints, smooth and repress any loose areas. Use primer or heat the same as for applying the jacket, if required.

After application, inspect all joints, smooth and re-press any loose areas. Use primer or heat the same as for applying the jacket, if required.

FITTINGS OR CHANGES IN THICKNESS:

With any jacketing or coating, any change in insulation thickness, such as screwed ell covers, pipe step downs, etc., should be field tapered to make a smooth transition. These transitions should be treated as a fitting, using PITTCOTE® 300 finish mastic (FI-120) and PC® Fabric 79 (FI-159) polyester fabric.

Fittings may be covered with jacketing cut in shapes to fit, or with PITTCOTE® 300 finish and PC® Fabric 79. When mastic is used, the mastic can be lapped over the aluminum surface. To do this, stop the last full section of jacket 10 cm (4 in.) short of the change in thickness or beginning of curvature. Apply a 10 cm (4 in.) butt strip with bituminous surface exposed; keeping the longitudinal lap even with the last full section. Apply a butt strip in the normal fashion over the joint between the last full section and the reversed butt strip. This leaves 5cm (2 in.) of exposed bituminous surface. Apply PITTCOTE® 300 finish and PC® Fabric 79 over the fitting, lapping onto the final butt strip. In cases of severe conditions, it may be desirable to reverse a larger width than 10 cm (4 in.).

LIMITATIONS:

Do not use in areas where jacketing will be exposed to temperatures in excess of 77°C (170°F)

Do not use over combustible insulation.

Do not use in areas where jacketing will be exposed to solvents that can dissolve asphalt.

Observe practical precautions when backfilling so not to puncture jacket.

This material is designed for application only for professional, trained personnel using proper equipment and is not intended for sale to the general public.

During exceptionally hot weather, when large diameter pipe is involved, it may be necessary to provide additional temporary support for shop applied jacketing by the judicious use of several wraps of fiber glass reinforced strapping tape over the jacketing and lapping itself at least 50%.

STORAGE:

Store in a heated area for cold weather application
Do not store at temperatures above 38°C (100°F)

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