

PITWRAP® JACKETING PRODUCT DATA SHEET

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

DESCRIPTION:

PITWRAP® jacketing is a heat sealable, multiply laminate for protecting underground FOAMGLAS® insulation systems for outer surface temperatures at or below 88°C (190°F).

PITWRAP® jacketing consists of three layers of a polymer modified bituminous compound separated by glass fabric reinforcement and aluminum foil. An outer layer of polyester film is laminated to the bituminous compound. A release paper prevents sticking in the roll before use.

*TYPICAL PROPERTIES:

PROPERTY		ASTM TEST
Color:	Black	
Thickness: mm (mils):	3 (125)	
Weight: kg/m ² , (lbs/ft ²)	3.2-3.4 (0.66-0.69)	
Width: cm, (in):	59.4 (23 3/8)	
Roll Length: m, (ft):	15.24 (50)	
Roll Area: m ² (ft ²)	9.3 (100)	
Roll Weight: kg, (lbs):	29.9-31.3 (66-69)	
Tensile Strength: kg/cm, (lbs/in):		
@25.6°C, (78°F):	19,(105)	
@ -7 °C, (20°F):	23(165)	
Application Temperature, min °C (°F):	-7 (20)	
Service Temperature: °C (°F):	-7 to 88 (20 to 190)	
Butt Strips:		
Width, cm (in):	10.2 (4)	
Roll Length, m (ft):	15.24 (50)	
Permeability		ASTM E96
ng/Pa•s•m, (perm-in):	0.003, (0.002)	
Perms @ 1.3mm (50 mils):	0.02	

*Typical properties at time of printing, 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.

MATERIAL APPLICATION:

Store PITWRAP® jacketing in a cool area out of direct sun in hot weather. In cold weather, store in warm area prior to use to facilitate application.

PITWRAP® jacketing may be shop or field-applied. In both cases, a cigarette-wrap application is used around FOAMGLAS® insulation with butt strips over the end joints. (See back page.)

All underground insulation systems must be designed with proper engineering details to control expansion/contraction, anchoring, etc. A qualified engineer should be consulted for design.

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. Fittings may be covered with jacketing cut in shapes to fit, or with PITCOTE® 300 finish (FI-120) and PC® Fabric 79 (FI-159). When finish is used, stop the last full section of jacketing 4" (10cm) short of the change in thickness or beginning of curvature. The polyethylene film on the PITWRAP® jacketing must be flashed off a minimum of 2". Over the bituminous surface, apply a tack coat of PITCOTE® 300 finish 0.8-1.21 l/ m² (2-3 gallons/100 ft²) and embed PC® Fabric 79, lapping jacketing a minimum of 5cm (2in). After one hour, apply a second coat of finish 0.8-1.21 l/ m² (2-3 gallons/100 ft²) and a second layer of fabric. Apply a top coat of finish 0.8-1.21 l/ m² (2-3 gallons/100 ft²) so that no fabric is visible when dry. Total wet thickness should be 6.4 mm (0.25 in.) minimum. If backfilling takes place less than 24 hours after PITWRAP® 300 finish is applied, roofing felt shall be placed over the coating.

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.

LIMITATIONS:

DO NOT use over combustible insulations or install where open flames are not permitted.

Do not use above ground without a metal jacket.

Do not use in areas where jacketing will be exposed to temperatures in excess of 88°C (190°F).

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

Observe practical precautions when backfilling so not to puncture jacket.

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

STORAGE:

Store in a heated area for cold weather application.

EQUIPMENT:

LPG Torch, regulator: Goss Kit KP118 with BP-5TE tip and EX128 extension. LPG Tank: LP-20 LPG Hose: Goss HEF-25

Additional equipment: Gloves, pointed trowel, shears.

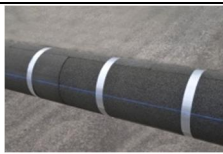






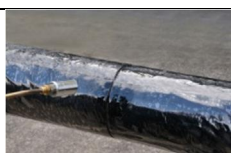






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 <p>1 FOAMGLAS® insulation installed with chalk line at the three o'clock position.</p>	 <p>2 Cut PITTWRAP® jacketing to sufficient length for a 50mm (2in.) overlap. Remove release paper from jacketing prior to heating.</p>
 <p>3 Heat leading edge and half of the PITTWRAP® jacketing.</p>	 <p>4 Starting on the chalk line, press the PITTWRAP® jacketing half way around the FOAMGLAS® insulation.</p>
 <p>5 Burn off the polyester film at the lap seal for a distance of 8 cm (3 in.) back from the edge of the PITTWRAP® jacketing.</p>	 <p>6 Heat the remaining half of the PITTWRAP® jacketing, pull the jacketing around the insulation and make the 50mm (2 in.) lap seal.</p>
 <p>7 Cut a PITTWRAP® jacketing butt strip 64mm (2.5 in.) longer than the circumference of the jacketed insulation. Remove the release paper from the butt strip prior to heating.</p>	 <p>8 Burn off the polyester film a distance of 5 cm (2 in.) on both sides of the PITTWRAP® jacketing joint.</p>
 <p>9 Heat the leading edge and half of the butt strip..</p>	 <p>10 Starting at the edge of the PITTWRAP® jacketing lap seal, keeping it centered over the joint, apply the butt strip half-way around the jacketed insulation.</p>
 <p>11 Burn off the polyester film a distance of 5 cm (2 in.) back from the edge of the butt lap seal.</p>	 <p>12 Heat the remaining half of the butt strip and pull it around the jacketed insulation to complete the lap seal.</p>
 <p>13 Heat-seal the PITTWRAP® jacketing lap edges and around the butt strip edges until the PITTWRAP® jacketing flows and seals together.</p>	 <p>14 Visually inspect the seal to ensure that molten asphalt has flowed into and collected in the lap. Further assurance of a positive seal can be made by pressing the lap in place with a pointed trowel.</p>
<p>NOTE: The lap is closed with opening facing upward to allow softened bitumen to flow into open seam. This provides a positive seal. This technique is the opposite of conventional jacketing applications.</p>	