

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 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
ng/Pa·s·m ² , (perm-in):	3. x 10 ⁻⁶ , (0.002)	E96
Perms @ 1.3mm (50 mils):	0.02	

*Typical properties at time of printing, subject to change. Consult Pittsburgh Corning Corporation.

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.

APPLICATION:

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 PITTCOTE® 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 PITTCOTE® 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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Pittsburgh Corning Corporation
800 Presque Isle Drive Pittsburgh, PA 15239-2799 USA
Toll Free: 800-545-5001
Phone: (724)327-6100 Fax: (724)387-3806
<http://www.foamglas.com/>

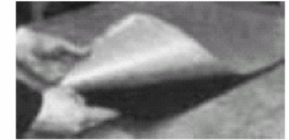
Pittsburgh Corning Europe S.A./ N.V. (EMEA Headquarters)
Albertkade 1 3980 Tessenderlo Belgium
Phone: +32-13-611-415 Fax: +32-13-351-567

Pittsburgh Corning Asia / Pacific
(Asia Headquarters)
PARK LUXE HONGO 1001
29-4, HONGO 2-CHOME, BUNKYO-KU
TOKYO 113-0033 JAPAN
Telephone / Fax: 81-50-7554-0248

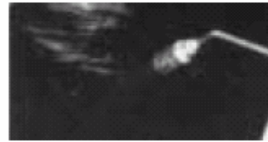
Step-by-Step Instructions for Applying PITWRAP® Jacketing



1 FOAMGLAS® Insulation installed with chalk line at three o'clock position.



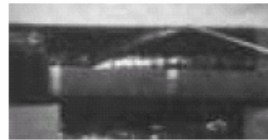
2 Starting at edge of PITWRAP® jacketing lap seal, apply butt strip half way around, lapping two inches on each side of butt joint.



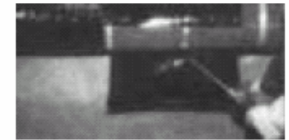
3 Heat leading edge and half of PITWRAP® jacketing.



4 Starting on the chalk line, press PITWRAP® jacketing half way around FOAMGLAS® Insulation.



5 Burn off polyester film at lap seal for distance of 3" back PITWRAP® jacketing.



6 Heat remaining half of PITWRAP® jacketing, pull jacketing around, and make lap seal.



7 Remove release paper from PITWRAP® jacketing butt strip.



8 Burn off polyester film for distance of 2" on each side of PITWRAP® jacketing.



9 Heat leading edge and half of PITWRAP® jacketing.



10 Starting at edge of PITWRAP® jacketing lap seal, apply butt strip half way around, lapping two inches on each side of butt joint



11 Burn off polyester film for distance of 2" back at butt lap seal.



12 Heat remaining half of butt strip, pull it around, and make lap seal.



13 Heat-seal PITWRAP® jacketing lap edges and butt strip edges around circumference until PITWRAP® jacketing softens and flows together.

NOTE: Lap is closed with opening facing upward to allow softened coating to flow into open seam, providing a positive seal. This technique is the opposite of that for conventional jacketing materials.