

# PITTWRAP® IW50 JACKETING PRODUCT DATA SHEET

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

## DESCRIPTION:

PITTWRAP® IW50 jacketing is a 1.27mm (50 mil) thick self sealing, non metallic sheet for protecting above ground FOAMGLAS® insulation systems under a metal jacket finish. Metal jacketing must be used over the PITTWRAP® IW50 jacketing for UV protection. Manual pressure seals the jacketing without the use of a torch or heater.

PITTWRAP® IW50 jacketing consists of a polymer modified bituminous compound reinforced with a non-woven glass fabric, a 0.03mm (1 mil) polyester film and release paper backing.

## \*TYPICAL PROPERTIES:

PROPERTY		ASTM TEST
Color:	Black	
Thickness: mm, (mils)	1.27, (50)	
Weight: kg/m <sup>2</sup> , (lbs/ft <sup>2</sup> )	1.71 (0.36)	
Width: cm, (in)	91 (36)	
Roll length: m, (ft)	36 (80)	
Roll Area: m <sup>2</sup> , (ft <sup>2</sup> )	21 (225)	
Roll Weight: kg (lbs)	36 (80)	
Tensile Strength: kg/cm, (lbs/in)	5.4, (30)	
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 74, (-25 to 165)	
Water Vapor Permeability perm-cm, (perm-in)	0.003, (0.002)	E96

\* Properties subject to change. Consult Pittsburgh Corning Corporation.

## RESISTANCE:

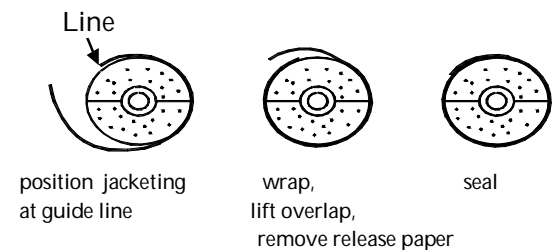
Water: good  
 Alkalis: good  
 Acids: good  
 Petroleum Solvents: poor  
 Fire: combustible

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

## 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 four-inch 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



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.

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 applied in the same manner. Succeeding sections are placed to overlap the previous section of jacket a minimum of 5 cm (2"). All longitudinal joints should be started on the same line to avoid gaps.

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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") short of the change in thickness or beginning of curvature. Apply PITTCOTE® 300 finish and PC® Fabric 79 over the fitting, lapping the aluminum surface by 5 cm (2").

## LIMITATIONS:

Do not use in areas where jacketing will be exposed to temperatures in excess of 74°C (165°F)

Do not use over combustible insulation.

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

Do not use without metal jacketing to protect the membrane from UV.

## STORAGE:

Store in a heated area for cold weather application.

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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