



FOAMGLAS®

PITTWRAP® IW50 AL JACKETING

Description and Area of Application

PITTWRAP® IW50 AL jacketing is a 50 mil-thick (1.27 mm), self-sealing, modified bituminous membrane with an aluminum foil laminate for protecting above-ground FOAMGLAS® insulation systems under a metal or UV-resistant jacket finish.

PITTWRAP® IW50 AL is ideal for use where insulation has roller-coated with asphalt prior jacketing. Manual pressure seals jacketing without the use of a torch or heater. PITTWRAP® IW50 AL jacketing may be factory- or field-applied to the insulation.

PITTWRAP® IW50 AL jacketing consists of a polymer-modified bituminous compound reinforced a 1 mil (0.03 mm) aluminum foil top film and release film backing.



When temperature is below 50°F (10°C), or if jacketing surface is dusty, apply a thin coat of PITTWRAP® SS Primer (FI-155) by brush to the bituminous surface in the overlap area. If temperature is below 50°F (10°C) 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 2 in. (50 mm). All longitudinal joints should be started on the same line to facilitate placement of succeeding sections.

After application, inspect all joints, smooth, and re-press any loose areas. Use primer or heat the same as when 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® 300E coating (FI-120e) and PC® Fabric 79 (FI-159) polyester fabric or PC® 150 mesh (FI-332).

Fittings may be covered with jacketing cut in shapes to fit, or with PITTCOTE® 300E coating and fabrics referenced above. Coating should be extended over the aluminum surface of the jacketing by 4 in. (100 mm). Apply coating and fabric over the fitting.

Cleanup and Disposal

Dispose of excess jacketing, release film, and packaging in accordance with local, state, and federal regulations.

Field Application

Always read and understand the information contained within product data sheets and safety data sheets before attempting to use this product. If you have questions regarding fitness of use of this product for an application, consult Owens Corning.

Substrate Preparation

All surfaces should be dry and free of dust, loose scale, oil, grease, and frost.

Insulation should be secured to the pipe with fiberglass-reinforced strapping tape, two pieces per section, overlapped by at least 50%.

Cellular Glass Application Guidelines

Cut a length of jacketing to provide at least a 2 in. (50 mm) overlap at the longitudinal seam. Slit the release film at this overlap, taking care not to slit jacket. Strike a horizontal line along the insulation, convenient for starting jacket positioning and to ensure a uniform lap line. Remove release film, except at the overlap. Dirt and dust must be kept off jacketing.

Place the end of the jacketing containing the release film in alignment with the struck line. The first piece of jacketing should be straight. Smooth the remaining jacket into place, working around the pipe cover. Avoid entrapment of air bubbles. Once the jacketing is completely around the insulation, lift the overlap and pass the opposite end beneath the overlap. Remove the remaining release film on the overlap and press tightly to seal the longitudinal joint.

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.

Type of Delivery and Storage

Rolls:

- 36 in. x 75 ft (91.4 cm x 22.9 m)
- Gross weight: approx. 61.5 lb (28 kg)
- DO NOT store where it may come in contact with hydrocarbon solvents, such as petroleum spirit, diesel oil, or other organic solvents.
- Store on-end, under cover, and protected from mechanical damage.
- Store in a well-ventilated room and at a maximum temperature of 100°F (38°C).
- Store in a heated area for cold weather application.
- Consult Safety Data Sheet for additional storage and handling information.

Coverage

Standard Application of Jacketing to FOAMGLAS® Insulation:

The required amount of jacketing for a section of insulated pipe can be calculated* as follows:

- Required Jacketing Area (A)

Equation 1, Imperial Units

$$A = [\pi \times (d + 2t) + 2] \div 12 \times l$$

Equation 2, SI, metric Units

$$A = [\pi \times (d + 2t) + 50] \div 1000 \times l$$

Where d = actual pipe diameter in inches or mm, t = insulation thickness in inches or mm, and l = pipe length in ft or m.

*Figures DO NOT include losses.

Typical Properties

| PROPERTY | TEST METHOD | SI UNITS | IMPERIAL UNITS |
|---|----------------------|-----------------------------|--------------------------|
| Color | | Silver (Aluminum) | |
| Weight (Nominal), Foil + Bitumen – Release Film | | ~1.4 kg/m ² | ~0.29 lb/ft ² |
| Application Temperature | | | |
| Minimum | | 10°C | 50°F |
| Minimum w/ Primer | | -7°C | 20°F |
| Service Temperature ¹ | | | |
| Maximum | | 75°C | 167°F |
| Minimum | | -20°C | -4°F |
| Chemical Resistance | | | |
| Water | | | Good |
| Alkali | | | Good |
| Acid | | | Good |
| Petroleum Solvent | | | Poor |
| Total Thickness | | 1.27 mm | 50 mil |
| Permeance | ASTM E96 Procedure A | 0.05 ng/Pa-s-m ² | 0.0009 perms |
| Tensile Strength | ASTM D882 | 52 N/cm | 30 lbf/in. |
| Elongation % min. | ASTM D882 | | 15 |
| Puncture Resistance | ASTM E154 | 356 N | 80 lbf |
| Lap Adhesion min. | ASTM D882 | 44 N/cm | 25 lbf/in. |

¹ Service temperature is the approved exposure temperature at the jacket derived from laboratory evaluations. Variations in substrates, loading conditions, or other external factors may further limit service temperature. Always consult FOAMGLAS® Insulation System Specification for suitability for use recommendations for a specific application.

Limitations

- DO NOT use over combustible insulations or install where open flames are not permitted.
- DO NOT use where jacketing will be exposed to solvents that will dissolve asphalt.
- DO NOT allow jacketing to remain exposed to sunlight and/or weather for more than six months.
- Not intended for indoor use.
- For above-ground use only.

For additional information on FOAMGLAS® Insulation Systems, please contact Owens Corning or visit us at www.foamglas.com.

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