

PITTCOTE® 300E COATING

Product Datasheet

1. Description and Area of Application

PITTCOTE® 300E coating is a liquid applied moisture cure vapor retarder coating especially formulated for use with FOAMGLAS® insulation. When cured, PITTCOTE® 300E coating forms an elastomeric layer. It can be used as a protective/vapor retarder coating over FOAMGLAS® insulation under metal jacket or other UV resistant finish or as vapor retarder coating in direct buried applications.

PITTCOTE® 300E coating is applied by brush, trowel or glove. Spray grade is available by special order.

2. Field Application

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

Substrate Preparation

All surfaces should be dry and free of dust, loose scale, oil, grease and frost. PITTCOTE® 300E does not require primer.

Environmental Considerations

Facilitate application at low temperature by keeping containers in a heated location or loosen lid and warm by indirect heat. DO NOT heat containers with flame or direct heat.

Mixing Instructions

This material must be thoroughly mixed prior to use. DO NOT thin.

Cellular Glass Application Guidelines for Above Ground Systems

Apply a tack coat of 1.2 L / m² (3.0 gal / 100 ft²) of PITTCOTE® 300E coating to FOAMGLAS® insulation. Embed PC® 150 mesh into the wet coat overlapping all fabric joints 10 cm (4 in). Smooth fabric and stretch to remove wrinkles.

Depending on substrate conditions, a second coat may be needed. If a second coat is needed, apply the second coat after the first coat is firm at a rate of 0.4 L / m² (1.0 gal / 100 ft²). Note: Apply the second coat within 72 hours of the first coat. As an alternate, PC® Fabric 79 may be used in place of PC® 150 mesh. When using PC® Fabric 79 a second coat will be required.

Spray grade application can be made using a Graco 833 Big Rig airless pump or equivalent that can deliver 17.2 to 20.7 mPa (2500 to 3000 psi) at the gun with an inlet strainer. The volume of material supplied by the pump should be adequate for



the given application. Spray gun should be Graco XTR-7 or equivalent with a 1233 to 1235 tip [0.58 mm (0.023 in.) orifice]. Other combinations of gun and tip can be qualified by the contractor to achieve the desired application properties. Hose must be capable of handling pressures up to 4000 psi or the peak pressure at the output of the pump and have a water lock membrane liner.

Although PITTCOTE® 300E coating has excellent weather resistance; it will degrade over time when exposed to UV light. Pittsburgh Corning LLC recommends that the PITTCOTE® 300E coating be coated with aluminum roof coating or covered with metal or other UV resistant jacketing.

Cellular Glass Application Guidelines for Underground Systems

PITTCOTE® 300E coating is compatible with self-seal PITTWRAP® jacketings. Refer to the product data sheet for PITTWRAP® SS jacketing, or PITTWRAP® CW PLUS jacketing for application of these jacketing products

Apply a 1.2 L / m² (3.0 gal / 100 ft²) tack coat of PITTCOTE® 300E coating and embed PC® Fabric 79 or PC® 150 mesh, lapping edges 10 cm (4 in). Allow coating to become firm. Apply a second coat of 0.4 L / m² (1.0 gal / 100 ft²) within 72 hours of applying the first coat. DO NOT backfill until coating has cured.

Clean up and Disposal

Dispose of excess coating and containers in accordance with local, state and federal regulations.

3. Type of Delivery and Storage

- 19 L (5 gal) pails
- 208 L (55 gal) drums
- Store in a heated area to prevent freezing in cold weather.
- DO NOT store at temperatures above 38 °C (100 °F).
- DO NOT heat container directly with open flame.
- Consult Safety Data Sheet for additional storage and handling information.

4. Coverage

Standard application of coating to FOAMGLAS® insulation:

- 19 L (5 gal) pail: 11.9 m² (125 ft²)
- 208 L (55 gal) drum: 130 m² (1,375 ft²)
- 1.6 L / m² (4 gal / 100 ft²) to achieve a cured coating thickness of 1.7 mm (65 mils).

All figures exclude losses.

5. Typical Properties

PROPERTY ^A	METHOD	SI	ENGLISH
COLOR			Black
DENSITY	ASTM D1475	1.26 ± 0.02 kg / L	10.9 ± 0.2 lb / gal
SOLIDS CONTENT, VOLUME			
SPRAY GRADE	ASTM C1250		98 %
TROWEL GRADE			95 %
VISCOSITY	Brookfield RVF		
SPRAY GRADE	TB Spindle 2 RPM @ 21.1 °C (70 °F)		45,000 ± 15,000 cps
TROWEL GRADE	TE Spindle 4 RPM @ 21.1 °C (70 °F)		275,000 ± 50,000 cps
REACTION TO FIRE, CURED			Combustible
APPLICATION TEMPERATURE			
MATERIAL		20 ± 18 °C	67.5 ± 32.5 °F
SURFACE (MINIMUM)		2 °C	45 °F
SERVICE TEMPERATURE @ COATED SURFACE ^B			
MAXIMUM		93 °C	200 °F
MINIMUM		-40 °C	-40 °F
CURE TIME ^C			
TOUCH			60 ± 20 minutes @ 25 °C (77 °F), 45 ± 5% RH
HARDNESS (SHORE OO)			
TROWEL	ASTM D2240		57
SPRAY			70
WATER VAPOR PERMEABILITY	ASTM E96 (Wet Cup)	0.19 ng / Pa·s·m	0.13 perm-in

^A Properties subject to change. Consult Pittsburgh Corning LLC.

^B Service temperature limits are derived from laboratory evaluation of the product. Variations in substrates, loading conditions, or other external factors may further limit service temperature. Always consult Pittsburgh Corning LLC FOAMGLAS® Insulation System Specification for suitability for use recommendations for a specific application.

^C Will vary with weather conditions and film thickness.

6. Limitations

- Contact Pittsburgh Corning LLC for recommendations for use in areas where long term chemicals exposure is expected.
- DO NOT use above ground without a metal jacket or other UV protection.
- DO NOT use over asphalt primers
- DO NOT use with PITTWRAP® HS jacketing

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