

PITTCOURSE™ 100 DAMP PROOF COURSE

Product Datasheet

1. Description and Area of Application

PITTCOURSE™ 100 High Performance Bitumen Damp Proof Course (DPC) is a modified bitumen, non-metallic sheet for use as the interleaving layers between the insulation in FOAMGLAS® tank base insulation systems. It consists of a modified bituminous compound reinforced with a polyester base, and finished with fine sand on the top and bottom.

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 a particular application, consult Pittsburgh Corning LLC.

Substrate Preparation

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

Environmental Considerations

Material temperature will affect ease of application. Product becomes less flexible at lower temperature and more flexible and higher temperatures within the application temperature range. DO NOT attempt to unroll the product if the temperature of the product is below the minimum application temperature.

Application Guidelines for Cold and Cryogenic Tank Base

Actual field application methods may vary with tank design. Consult Owens Corning LLC and the designer's specification. The detail shown in Figure 1 below shows a typical tank base design.

Apply first layer of insulation block with joints tightly butted.

Apply a single layer of PITTCOURSE™ 100 DPC over the insulation block with edges tightly butted and no voids.

Apply the second layer of insulation block over the PITTCOURSE™ 100 DPC with the joints firmly butted together with no voids. The insulation joints of this layer are staggered from the joints of the first layer of insulation. Successive courses of insulation block are installed in this manner with single layer of PITTCOURSE™ 100 DPC applied over each course of block until the specified design thickness is achieved.

The layer of PITTCOURSE™ 100 DPC may be applied with butted joints or lap joints. Where



lap joints are required to mitigate sand or wet concrete ingress, use PITTCOURSE™ DPC Jointing Tape to adhere lap joints. DO NOT attempt to use a torch to fuse the lap.

Clean up and Disposal

Dispose of excess damp proof course and packaging in accordance with local, state and federal regulations.

3. Type of Delivery and Storage

- Rolls: 1.0 x 8.0 m (39.4 in x 26.2 ft) or 8.0 m² (86 ft²) Gross weight: 32 kg (70.5 lb)
- Product should not be stored where it may come in contact with hydrocarbon solvents such as petroleum spirit and diesel oil or other organic solvents.
- Product rolls must be stored on end and protected from mechanical damage.
- Store product in a heated area for cold weather applications. Best results are achieved when a storage temperature between 10 °C (50 °F) and 50 °C (122 °F) is maintained prior to installation.
- Keep dry prior to use and during installation.
- Avoid exposure to direct sunlight during storage.
- Extended site storage of PITTCOURSE™ 100 rolls can lead to damage of the roll ends. This is especially the case where the ambient temperature at the storage site routinely exceeds 35°C (95°F). Avoid long term storage of the product in these conditions. Damaged roll edges may be trimmed using a utility knife and straight edge or chalk line to square the edge.
- Consult Safety Data Sheet for additional storage and handling information.

4. Coverage

Standard application of jacketing to FOAMGLAS® insulation:

Standard application requires rolls to be tightly butted with no overlap except where lap joints are specified on the final layer. Nominal roll coverage is 8 m² per roll (86 ft² per roll).

Figures DO NOT include losses.

5. Typical Properties

PROPERTY ^{A, C, D}	METHOD	SI	ENGLISH
COLOR			BLACK
THICKNESS	EN 1848 – 1	3 ± 0.2 mm	118 ± 8 mil
DIMENSIONAL TOLERANCES			
WIDTH	EN 1848 – 1	1.00 ± 0.02 m	39.4 ± 0.8 in.
LENGTH	EN 1848 – 1	8.00 ± 0.10 m	26.2 ± 0.3 ft
WEIGHT, NOMINAL		4 ± 0.25 kg / m ²	0.82 ± 0.05 lb / ft ²
STRAIGHTNESS	EN 1848 – 1	< 20 mm / 20 m	< 2.9 in / 100 ft
APPLICATION TEMPERATURE,			
MINIMUM		0 °C	32 °F
SERVICE TEMPERATURE ^B			
MAXIMUM		65 °C	149 °F
MINIMUM		-180°C	-292 °F

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SOFTENING POINT OF BITUMEN		100 ± 20 °C	212 ± 36 °F
LOW TEMPERATURE FLEXIBILITY	EN 1109	-15 °C	-5 °F
VISIBLE DEFECTS	EN 1850 – 2		PASS
WATER TIGHTNESS	EN 1928 (B)		PASS
WATER TIGHTNESS AFTER AGEING	EN 1296		PASS
TENSILE STRENGTH ^E	EN 12311 – 2	600 N / 50 mm – MD 550 N / 50 mm – TD	68 lbs. Force / in. – MD 63 lbs. Force / in. – TD
TEAR RESISTENCE ^E	EN 12310 – 1	165 N – MD 241 N – TD	37 lbs. Force – MD 54 lbs. Force – TD
REACTION TO FIRE	EN 13501 – 1		Class E
RESISTANCE TO IMPACT	EN 12691 (A)	≥ 300 mm	≥ 12 in.
RESISTANCE TO STATIC LOADING	EN 12730 (A)	≥ 20 kg	≥ 44 lb
DIMENSIONAL STABILITY	EN 1107 – 1		≤ 1%
FLOW RESISTANCE AT ELEVATED TEMPERATURE	EN 1110	≥ 90 °C	≥ 194 °F

^A Properties are subject to change. Consult Owens 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 Owens Corning LLC FOAMGLAS® Insulation System Specification for suitability for use recommendations for a specific application.

^C Conforms to EN 13969: 2004 / A1: 2006

^D Product meets the performance requirements of BS6398 – 1983, except Hessian base.

^E MD = Machine Direction, TD = Transverse Direction

6. Limitations

- DO NOT use in areas where product will be exposed to solvents that can dissolve bitumen.

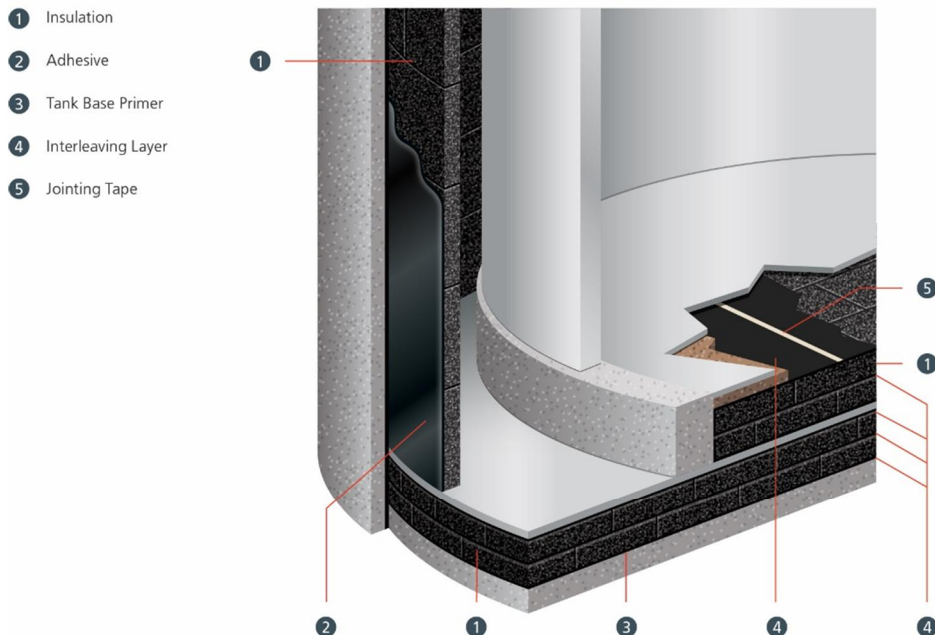


FIGURE 1

The information contained herein is accurate and reliable to the best of our knowledge. But, because Pittsburgh Corning LLC has no control over installation workmanship, accessory materials or conditions of application, NO EXPRESSED OR IMPLIED WARRANTY OF ANY KIND, INCLUDING THOSE OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, IS MADE as to the performance of an installation containing Pittsburgh Corning LLC products. In no event shall Pittsburgh Corning LLC be liable for any damages arising because of product failure, whether incidental, special, consequential or punitive, regardless of the theory of liability upon which any such damages are claimed. Pittsburgh Corning LLC provides written warranties for many of its products, and such warranties take precedence over the statements contained herein.

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