



FOAMGLAS®

PITTCOURSE™ 100 DAMP PROOF COURSE KR PRODUCT DATA SHEET

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.

Field Application

Always read and understand information contained within product datasheets and safe use instruction sheets before attempting to use this product. If you have questions regarding fitness of use of this product for a particular application, consult Owens Corning.

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 at 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 and the designer's specification. The detail shown in Figure 1 on page 3 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.

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: 31 kg (68.3 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. Long term stacking of pallets is not recommended.
- 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 Safe Use Instruction Sheet for additional storage and handling information.

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).

Typical Properties

PROPERTY ^{A, C, D}	TEST METHOD	SI	ENGLISH	
Color		Black		
Thickness	EN 1848-1	3.0 ± 0.3 mm	118 ± 12 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		3.63 ± 0.25 kg / m ²	0.74 ± 0.05 lbs / ft ²	
Application Temperature				
Minimum		0°C	32°F	
Service Temperature ^B				
Maximum		65°C	149°F	
Minimum		-180°C	-292°F	
Softening Point of Bitumen		100°C ± 20°C	212°F ± 36°F	
Low Temperature Flexibility	EN 1109 ASTM D5147	-15°C	-5°F	
Visible Defects	EN 1850 -2	Pass		
Water Tightness	EN 1928 (B)	Pass		
Water Tightness after Aging	EN 1296	Pass		
Tensile Strength ^E	EN 12311 -2 ASTM D5147	≥ 600 N / 50 mm – MD ≥ 550 N / 50 mm – TD	≥ 68 lbs. Force / in. – MD ≥ 63 lbs. Force / in. – TD	
Tear Resistance ^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 ASTM D5147	≤ 1%		
Flow Resistance at Elevated Temperature	EN 1110	≥ 90°C	≥ 194°F	

A. Properties are subject to change. Consult Owens Corning.

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 FOAMGLAS® Insulation System Specification for suitability for use recommendations for a specific application.

C. Properties declared above are designed to meet the criteria defined in EN 13969: 2004 / A1 : 2006

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

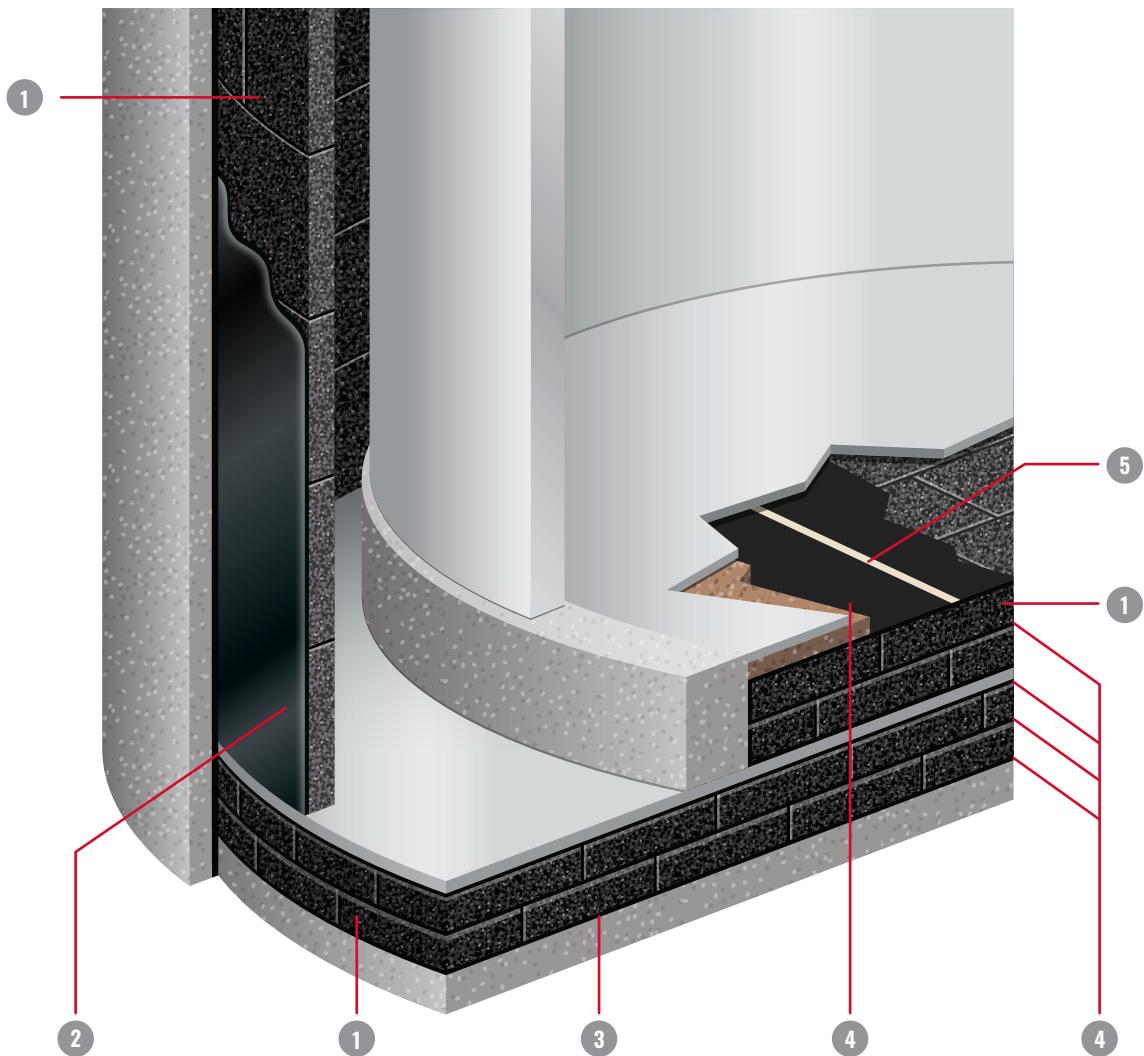
E. MD = Machine Direction, TD = Transverse Direction

Limitations

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

Figure 1

- 1 Insulation
- 2 Adhesive
- 3 Tank Base Primer
- 4 Interleaving Layer
- 5 Jointing Tape



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