

Soltex Frost Protection Mats

Description:

Laying concrete at temperatures below 5°C generally requires special precautions (such as special concrete additives, heating devices, hot vapour equipment, etc.). An easy and inexpensive solution is the use of Frost Blankets.

The thermal insulation effect of the Frost Blanket significantly reduces the loss of natural concrete hydration heat and thereby keeps the concrete warm long enough for safe curing.

The combination of their excellent thermal insulation performance, their negligible water absorption, and their flexibility make Frost Blankets ideal for improved concrete curing. Frost Blankets can be directly rolled onto the wet concrete.

Wind conditions might necessitate the mats being held in place by suitable loading at the contractor's discretion.

Beware not to walk on the mats during installation and before the hardening of the concrete.



- Negligible water absorption.
- Excellent thermal insulation.
- Excellent chemical resistance.
- Fast laying from the roll.
- Lightweight, easy to handle and cut.
- Good mechanical resistance.
- Flexible at very low temperatures.

Size

75m x 1.5mm x 8mm

Technical Data:

Property	Test Method	Value
Density	DIN 53420	32 kg/m ³
Tensile Strength (<i>Extrusion Direction</i>)	DIN 5371	0.219 N/mm ²
Tensile Strength (<i>Cross Section</i>)	DIN 5371	0.170 N/mm ²
Elongation at Break (<i>Extrusion Direction</i>)	DIN 53571	67%
Elongation at Break (<i>Cross Section</i>)	DIN 53571	52%
Compressive Strength (4th Compression)	DIN 53571	25% - 0.031 N/mm ² 50% - 0.089 N/mm ² 70% - 0.220 N/mm ²
Thermal Resistance (24hr at 70°C)	ASTM D-3575-S	<0.5%
Creep Test (1 psi)	ASTM D-3575-BB	1hr - <2% 24hr - <5% 168hr - <8%
Cell Size	BS4443/1 Met. 4	>21 Cells/25mm
Water Absorption (after 24hrs)	DIN 53428	119 Vol %
Thermal Conductivity		'U' value of 5 Watts/mC or a 'K' value of 0.055 Watts/m Kelvin

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