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## SOLTEX Frost Protection Mats



- Negligible water absorption.
- Excellent thermal insulation.
- Excellent chemical resistance.
- Fast laying from the roll.
- Lightweight, easy to handle and cut.

Soltex frost protection mats makes an ideal concrete curing blanket when laying concrete at temperatures below 5°C which generally requires special precautions (such as special concrete additives, heating devices, hot vapour equipment etc.). Soltex Frost Protection mats are an easy and inexpensive solution.

The thermal insulation effect of the Solco frost mat significantly reduces the loss of natural concrete hydration heat and thereby keeps the concrete warm long enough for a safe curing.

The combination of their excellent thermal insulation performance, their negligible water absorption and their flexibility make Soltex frost mats ideal for improved concrete curing. Soltex frost mat 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 hardening of the concrete.

The Soltex frost mat is a high performance foam material that is thermo-formable, impervious to most chemicals and performs consistently over a wide range of temperatures. The lightweight material which is easily handled and manoeuvred on-site can also be fabricated on-site as required. It is resilient and tough enough to be re-used many times. Soltex frost mat is recyclable and therefore a good choice when considering the environment effect of any materials used on-site.

Physical Properties	Test Method	Unit	Value
Density	DIN 53420	kg/m <sup>3</sup>	30
Tensile Strength Extrusion Direction Cross Section	DIN 5371	N/mm <sup>2</sup>	0.219 0.170
Elongation at Break Extrusion Direction Cross Section	DIN 53571	%	67 52
Compressive Strength 25% (4th Compression) 50% (4th compression) 70% (4th Compression)	DIN 53571	N/mm <sup>2</sup>	0.031 0.089 0.220
Thermal Resistance (24hr at 70°C)	ASTM D-3575-S	%	<0.5
Creep Test (1 psi)	ASTM D-3575-BB	%	<2 (1hr), <5 (24hr), <8 (168hr)
Cell Size	BS 4443/1 Met. 4	Cells/25mm	>21
Water Absorption (after 24 hours)	DIN 53428	Vol %	119
Thermal Conductivity	'U' value of 5 Watts/mC <b>or</b> a 'K' value of 0.055 Watts/m Kelvin		