

ThermScreed™

Lightweight Insulating Screed

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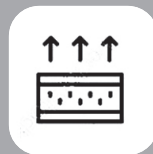
ThermScreed is a lightweight, insulating screed underlay that can be laid over a wide range of substrates to provide an insulating thermal barrier at depths of 20mm - 120mm. It does not provide a final wearing surface and is typically finished off with a self-levelling screed/compound before final decorative flooring is installed.



1 BAG
= 25kg



INSULATING



PARTIALLY
BREATHABLE



1 BAG
@ 10mm



ECO
FRIENDLY



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Preparation

Remove all loose material/dust and apply *ProofBase SBR* primer to the existing substrate. *ThermScreed* may be used on top of a damp-proof membrane. Minimum recommended thickness in this case is 50mm.

Mixing Method

One 25 kg bag of *ThermScreed* should be mixed with clean water in a large container at the following rates:

- Dry screed application: Approx. 10 litres
- Wet (flowing) screed application: Approx. 15 litres

Place the water in the container then add the *ThermScreed* and mix with an electric mixer at 120rpm for 2 minutes until the mixture is fully combined. Allow to rest for a minute then mix again for a further minute.

Important Note: Do not overmix as this will crush the insulating aggregates and reduce the strength and effectiveness of the screed.

Application

- 1: Tip the mixture onto the working area**
- 2: A rake or similar tool can be used to spread the screed**
- 3: If using a dry mix, tamp down with a wooden bar to desired thickness**
- 4: If using a wet mix, use a flat edge to gently level but do not over work the surface**

Drying Time

Drying conditions vary immensely depending on the season, ventilation, geographic location and type of application so the following drying times are given as an illustration only based on a 20mm application. It is the responsibility of the installer to check moisture levels before fitting the final floor finish.

Setting: 24-48 hours Full Curing: 48-72 hours

Finishing

ThermScreed will not provide a wearable surface and must always be protected with a screed or covering that provides a wearing surface e.g. self-levelling compound, ceramic tiles etc.

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Essential Characteristics	Performance	Method of Test
Thermal conductivity	T1 (0.1 w/m²K)	EN 1745:2012
		EN 12664:2009
Reaction to fire	A1	EN 13501-1
Compressive strength	3.5 N/mm²	EN 1015 - 11
Dry bulk density (kg/m³)	600 kg/m³	EN 1015 - 10
Capillary water absorption	W1	EN 1015 - 18
Sound insulation (db)	20db (3cm/500hz)	EN ISO 10140-2
Colour & appearance	Grey granule	
Consumption	7kg/m²/10mm +/- 10%	
Drying time	24 hours/10mm (at 23°C, 50% relative humidity)	
Drying time for testing	28 days at (23°C, 50% relative humidity)	
Application temperature	5° – 35°C	
Application duration (pot life)	4 hours (at 23°C, 50% relative humidity)	
Applicable depth	20mm - 120mm	

Safety:

- Contains cement and hydraulic lime
- Skin irritant: Wash with plenty of water
- Eye irritant: Remove contact lenses if present and flush carefully with water for several minutes
- May cause respiratory irritation. Avoid inhaling dust
- Keep out of reach of children
- Wear protective gloves, clothing and eye protection
- Call a poison center or doctor if you feel unwell
- Dispose of contents / container in accordance with local regulations and at an approved facility.



Disclaimer:

These details provide a basic guide and overview to usage and application and should not be relied on as definitive methodologies, nor do they imply and form of warranty or guarantee. The end user should refer to www.proofshield.co.uk/technical/downloads for more detailed installation and product information.



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