

ProofTherm[®]

INSULATING SCREED

Lightweight Insulating Screed



ProofTherm Insulating Screed combines Perlite and Pumice aggregates to create an ultra-lightweight screed underlay with excellent insulating properties. Perlite and Pumice are naturally occurring volcanic rocks that form with a highly aerated honeycomb structure. These tiny air bubbles trapped in *ProofTherm's* aggregates create a barrier to thermal conductivity and also reduce acoustic transmission. It can be used as an underlay to insulate floors at depths between 20mm and 120mm, either directly onto an existing slab/substrate or in combination with a damp proof membrane.

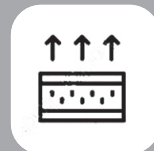
ProofTherm insulating screed is not designed to provide a permanent wearable surface and should be finished off with a durable self-levelling screed/compound or final decorative surface.



1 BAG
= 25kg



INSULATING



PARTIALLY
BREATHABLE



1 BAG
@ 10mm



ECO
FRIENDLY



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Application and Use

Preparation:

All screeds need a clean and sound surface to bond to. Remove all loose material and apply *ProofBase SBR* primer by brush or roller to the existing substrate and allow to dry. *ProofTherm* can be applied on top of a damp-proof membrane. Minimum recommended thickness in this case is 30mm.

Mixing Method:

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

- Dry screed application: Approx. 9.5 litres
- Wet (flowing) screed application: Approx. 16.5 litres

Place the water in the container first, then add the *ProofTherm* and mix with a drill paddle or electric mixer at 120rpm for 2 minutes until the mixture is combined with the water. Allow the mixture to rest for a minute before mixing again for a further minute. Do not overmix as this will crush the insulating aggregates.

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. It is the responsibility of the installer to check moisture levels before fitting the final floor finish.

Example: 24 hours per 10mm application depth for a walkable surface.

Finishing:

ProofTherm insulating screed will not provide a wearable surface and must always be protected with a screed or covering that provides a wearing surface suitable for its location (e.g. domestic or commercial use). In most cases, a self-levelling screed or compound is a suitable treatment before the final decorative finish

Under Floor Heating (UFH):

ProofTherm insulating screed provides an ideal base for UFH and helps reduce heat loss to the ground. It is NOT ideal for encapsulating UFH pipes as it will reduce their ability to deliver heat to the room.

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Essential Characteristics	Performance	Method of Test
Thermal conductivity	T1 (0.1 w/m ² K)	EN 1745:2012
		EN 12664:2009
Reaction to fire	A1	EN 13501-1
Compressive strength	3.5 N/mm ²	EN 1015 - 11
Dry bulk density (kg/m ³)	600 kg/m ³	EN 1015 - 10
Capillary water absorption	W1	EN 1015 - 18
Water vapour permeability (μ)	<15 μ	EN 1015 - 19
Sound insulation (db)	20db (3cm/500hz)	EN ISO 10140-2
Colour & appearance	Grey granule	
Consumption	5.8kg/m ² /10mm	
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.



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