



**NICOLAIDES & KOUNTOURIS
METAL COMPANY LTD**



**ISO 9001
CY.QS.1.11.038**

**OHSAS 18001
CY.OH.N.14.008**

PS THERMINK®

THERMAL INSULATING MORTAR

READYMIXED LIGHTWEIGHT THERMAL INSULATING MORTAR

Premixed thermal insulating lightweight mortar based on more than 90% per volume of granulated polystyrene foam, for roof and floor applications.



TECHNICAL CHARACTERISTICS

CHARACTERISTIC	DESCRIPTION	STANDARD
Appearance	Grey	
Packing	Packed in paper bags of approx. 75L	
Application temperature	+ 5 °C up to +35 °C	
Minimum (application) thickness	5 cm	
Consumption	13 bags for 1m ³	
Particle size polystyrene foam	Up to 8 mm	
Density	340 ± 10% kg/m ³	EN 12390-3:2009
Thermal conductivity	0.09 ± 5% W/mK	EN 12664
Reaction to fire class	A2fl-s1 Nonflammable building material	EN 13501-1 + A1 :2010 EN ISO 1716 EN ISO 9239-1
Compressive strength	0.85 ± 5% N/mm ² =85 ± 5% tons/m ²	EN 12390-3:2009

USAGE & APPLICATIONS

PS THERMINK is used:

- as a final substrate applied on sloped and flat slabs providing insulation (thermal and acoustic) and offering long-lasting durability.
- for filling and leveling of floors that will be covered with tiles, marble, PVC floors, ceramic tiles, natural stone, artificial stone, wooden floors, parquet, carpets etc.
- under floor heating systems.
- for roofs and roof terraces underneath the waterproofing layers; hot applied (e.g. bituminous membranes) or cold applied (any kind of waterproofing).
- for gradient formation (changing of slopes) on rooftops, even in large thicknesses.
- as a replacement of plain concrete or lightweight concrete.

APPLICATION PROCEDURE

The application of **PS THERMINK**, is like any other mortar in the market. To achieve a leveled and even surface, zero guides of the desired thickness need to be placed. The surface is then cut with an aluminum bar and then leveled with a trowel applying enough pressure so that the material adheres to the substrate. During the summer period (and generally at temperatures over 30 °C) the mortar should be watered for at least five days to avoid dehydration. With the material completely dry it is possible to apply directly on its surface any material one wishes. Because of foam formation, the application is simple and effective for filling, while creating gradients and large thicknesses.

MIXING

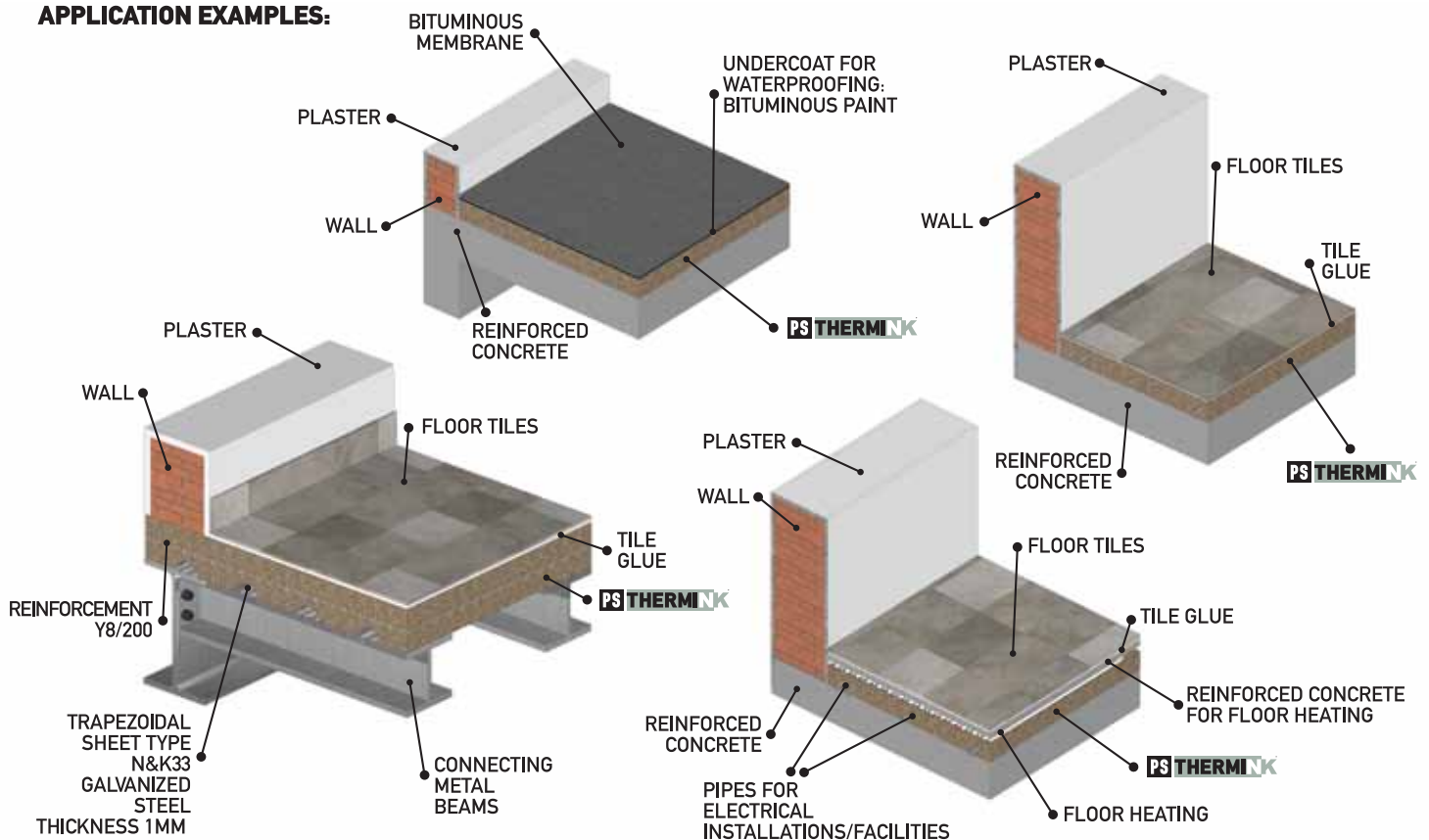
The mixing of **PS THERMIK** is very simple, as all the ingredients (recycled polystyrene, cement and additives) are mixed in a bag (capacity about 75 L). All the content of one bag is mixed with water (about 15 liters) until a workable, uniform mixture is achieved (foamy homogeneous paste). The mixing should last for at least 5 minutes and should not exceed 10 minutes. The mixing can be done with a hand mixer or a conventional concrete mixer.

APPLICATION INSTRUCTIONS

- The substrate must be sound and free from grease, loose particles, dust or any other foreign substances.
- Wetting of the substrate is not required.
- **PS THERMIK** may be applied on top of any construction, provided it can withstand its weight.
- Do not mix **PS THERMIK** with cement, lime or other binders.
- The mortar should be mixed with water only.
- Do not add water, latex or any other liquid to the mixture when it begins to set.

- The product may be applied directly in a layer thickness of up to 20cm and successive layers when the previous layer is set (24 hours).
- If necessary additional layers of **PS THERMIK** may be applied, when the previous layer has completely set (after 24 hours).
- After the application it is possible to coat it with stabilizing primer, in order to improve the mortar.
- **PS THERMIK** is cement based and all the rules required for cement based products must be observed like proper wetting and protection from intense exposure to extreme weather conditions for the first 24 hours, etc.
- During the summer months the mortar surface should be watered after application, in order to protect the mortar from dehydration due to high temperatures.
- It is not recommended to apply **PS THERMIK** at temperatures below + 5 °C or above +35 °C.
- The laying of tiles should be carried out with a flexible tile adhesive and a flexible grout.

APPLICATION EXAMPLES:



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