

Thermofix PRO

Pre-packed adhesive and plaster for polystyrene thermal insulating boards



DESCRIPTION

Thermofix PRO is a cementitious adhesive specially designed to be used for permanent fixing of thermal insulation boards to a wide range of substrates including concrete, and masonry.

Thermofix PRO is also designed for use as a protective mortar providing a durable layer for insulation boards that is suitable to receive several types of decorative finishes.

APPLICATIONS

- » For permanent fixing of expanded and extruded polystyrene boards to walls and roofs.
- » For permanent fixing of mineral wool boards to walls and roofs.
- » Provides a strong and smooth layer over thermal insulation boards.
- » To be used with reinforcing mesh to form a solid layer to protect insulation boards.
- » Suitable to receive a wide range of decorative finishes.

ADVANTAGES

- » Easy to apply.
- » Improved water resistance.
- » Improved impact resistance.
- » Non-sag.
- » Improved compressive strength.
- » Improved bond strength.
- » Requires no primer.

METHOD OF USE

SUBSTRATE PREPARATION

- » All surfaces must be clean and free from oil, grease or loose materials.
- » The substrate should be dimensionally stable. Allow time for shrinkage and structural strain movements.
- » The insulation board has to be firmly fixed using Thermofix adhesives and fasteners.
- » Large gaps between insulation boards must be filled with strips of insulation board to leave minimal gaps.
- » All edges of the building need to be protected by PVC, aluminium or stainless steel angle bars

TECHNICAL PROPERTIES @ 25°C:

Colour:	Grey
Fresh wet density (mixed):	1.4 ± 0.1 g/cm ³
Open time:	> 10 min @ 3 mm thickness
Pot life:	6 - 8 hr
Compressive strength: EN 1015-11:	≥ 8.0 MPa @ 28 days
Flexural strength: EN 1015-11	≥ 2.5 MPa @ 28 days
Adhesion strength with concrete substrate: EN 1015-12	≥ 0.45 N/mm ²
Adhesion strength with EPS boards: EN 13494	≥ 80 KPa
Water permeability:	≤ 2.29 kg/ m ² .h ^{0.5}
Water permeability: Transmission speed, V	≥ 20
Resistance factor, μ	11.93
Application temperature:	5 to 30°C

PRIMING

Thermofix PRO can be applied directly on concrete, cement plaster and masonry. In case of very porous substrates, water should be sprayed onto the surface prior to the application.

MIXING

To ensure proper mixing, a mechanically powered mixer or drill fitted with suitable paddle should be used.

Add 5.75 - 6.25 litres (for each 25 kg bags) of clean water to a clean container. The powder is then added slowly to the water while mixing continuously with low-speed mixer/drill (400 - 600 rpm). Mixing time should be continued for 3 minutes until a uniform consistency is obtained.

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APPLICATION

As adhesive:

Apply the mortar in a strip around the insulation board with a few spots in the middle. In case of a smooth base material, a toothed trowel can be used to spread the mortar on the back of the insulation board.

As a protective layer:

Apply the mortar over the fixed thermal insulation panel. Embed the pre-cut reinforcing mesh onto the fresh applied mortar until it gets into the middle of the Thermofix PRO layer. Smooth the surface with a long flat trowel. More than one Thermofix PRO layer can be applied.

Note: Mesh strips have to be overlapped by approximately 10 cm.

CLEANING

All tools should be cleaned immediately after use with fresh clean water. Hardened materials can be cleaned mechanically.

PACKAGING

Thermofix PRO is available in 25 kg bags.

YIELD

As adhesive: Approximately 7.4 m²/25 kg bags at 3 mm thickness.

As a protective layer: Approximately 4.4 m²/25 kg bag at 5 mm thickness.

STORAGE

Thermofix PRO has a shelf life of 12 months from date of manufacture if stored at temperatures between 2°C and 50°C.

If these conditions are exceeded, contact DCP Technical Department for advice.

CAUTIONS

HEALTH AND SAFETY

Thermofix PRO contains Portland cement and may cause irritation to skin or eyes.

In case of accidental contact with eyes, immediately flush with plenty of water for at least 10 minutes and seek medical advice if necessary.

For further information, refer to the Material Safety Data Sheet.

FIRE

Thermofix PRO is nonflammable.

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Note:

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.

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