

# Thermofix MN

Flexible, fiber reinforced cementitious basecoat and adhesive for mineral wool boards for external walls insulating systems



## DESCRIPTION

Thermofix MN is a cementitious adhesive and basecoat render specially designed for the application of external thermal insulation composite systems using mineral wool facades boards.

The unique composition of Thermofix MN makes an excellent solution for permanent fixing of mineral wool boards on all common construction substrate such as concrete, cementitious plaster and blocks as well as providing a durable basecoat layer with high impact resistance to receive several decorative finishes.

## APPLICATIONS

Thermofix MN is an indispensable component in the external thermal insulation composite system for the following application:

- » For permanent fixing of mineral wool boards to all common construction substrates.
- » To be used with reinforcing mesh to form a solid layer to protect insulation boards and provide a smooth layer to receive the decorative finishing coats.

## ADVANTAGES

- » Excellent adhesion strength to mineral wool boards.
- » High impact resistance.
- » High water resistance.
- » Easy to apply.
- » High flexibility.
- » Requires no primer.

## METHOD OF USE

### SUBSTRATE PREPARATION

All surfaces must be clean and free from oil, grease or loose materials. Substrate should be dimensionally stable. Allow time for shrinkage and structural strain movements.

Mineral wool board has to be firmly fixed using Thermofix MN, for additional secure, mechanical fasteners can be used with the adhesive.

Large gaps between insulation boards must be filled with strips of insulation board to leave minimal gap. All edges of the building need to be protected by PVC, aluminum or stainless steel angle bars.

## TECHNICAL PROPERTIES @ 20°C:

Colour:	Grey
Fresh wet density:	1.4 ± 0.1 g/cm <sup>3</sup>
Pot life:	6 - 8 hr
Compressive strength: EN 1015-11	≥ 8 MPa @ 28 days
Flexural strength: EN 1015-11	≥ 2 MPa @ 28 days
Adhesion strength to concrete substrate: EN 1015-12	≥ 0.30 MPa (mortar substrate failure)
Adhesion strength to mineral wool board: EN 13494	Substrate failure
Absorption coefficient to capillary water C: EN 1015-18	≤ 0.160 kg/m <sup>2</sup> .min <sup>0.5</sup>
Water vapor permeability:	0.183 x 10 <sup>-10</sup> kg/m.s.Pa
Coefficient of water vapour permeability:	≤ 13
Application temperature:	5 to 30°C

## PRIMING

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

## MIXING

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

5.75 - 6.25 litres of clean fresh water for each 25 kg bag (water/powder ratio of 0.23 - 0.25 by weight) should be added to a clean container. The powder is then added slowly to the water while mixing continuously at low speed (400 - 600 rpm).

Mixing time should be continued for 3 minutes until a uniform consistency and free of lumps mixture is obtained. Allow a slake time for 2 - 3 minutes, then remix for additional 1 minute without adding any more water.

## Don Construction Products

Str. Dârzei II, no. 235D, Village Mănăstirea  
Crevedia, County Dâmbovița  
Romania

[info.romania@dcp-int.com](mailto:info.romania@dcp-int.com); [officeromania@dcp-int.com](mailto:officeromania@dcp-int.com)  
[www.dcp-int.com](http://www.dcp-int.com)



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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 Basecoat*

Apply the mortar over the fixed mineral wool boards. Embed the pre-cut reinforcing mesh onto the fresh applied mortar until it gets into the middle of the Thermofix MN layer. Smooth the surface with a long flat trowel. More than one Thermofix MN 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 should be cleaned mechanically.

## PACKAGING

Thermofix MN is available in 25 kg bags.

## YIELD

As an adhesive: Approximately 7.4 m<sup>2</sup>/25 kg bags at 3 mm thickness.

As a basecoat: Approximately 4.4 m<sup>2</sup>/25 kg bag at 5 mm thickness.

## STORAGE

Thermofix MN has a shelf life of 12 months from date of manufacture if stored at temperatures between 2°C and 40°C in original unopened bags.

If these conditions are exceeded, DCP Technical Department should be contacted for advice.

## CAUTIONS

### HEALTH AND SAFETY

Thermofix MN 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 MN is nonflammable.

### MORE FROM DON CONSTRUCTION PRODUCTS

A wide range of construction chemical products are manufactured by DCP which include:

- » Concrete admixtures.
- » Surface treatments
- » Grouts and anchors.
- » Concrete repair.
- » Flooring systems.
- » Protective coatings.
- » Sealants.
- » Waterproofing.
- » Adhesives.
- » Tile adhesives and grouts.
- » Building products.
- » Structural strengthening.

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Romania

[info.romania@dcp-int.com](mailto:info.romania@dcp-int.com); [officeromania@dcp-int.com](mailto:officeromania@dcp-int.com)

[www.dcp-int.com](http://www.dcp-int.com)

#### 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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