

Thermofix Flex

Highly flexible cementitious adhesive base coat and protective top coat plaster for external wall insulating systems (ETICS(EIFS))

DESCRIPTION

Thermofix Flex is a high-quality cementitious adhesive-render mixture specially designed to be used for permanent fixing of thermal insulation boards to a wide range of substrates including concrete, and masonry. Thermofix Flex is reinforced with fibers and polymer ingredients and provides a strong, protective layer in the thermal insulation system providing a durable layer for insulation boards that is suitable to receive several types of decorative finishes.

APPLICATIONS

Thermofix Flex is used for:

- » External and internal insulation of walls, ceilings, facades and other surfaces.
- » Fixing and plastering of thermal insulation boards made of expanded polystyrene (EPS), extruded polystyrene (XPS) and mineral wool (MW).
- » Provides a strong and smooth layer over thermal insulation boards.
- » Fixing the reinforcing mesh in the thermal insulation system.
- » Suitable base for a wide range of decorative plasters.

ADVANTAGES

- » Easy to apply.
- » High water and frost resistance.
- » High impact resistance.
- » High compressive strength.
- » High adhesion strength.
- » High flexibility.
- » Requires no primer.

STANDARDS

Thermofix Flex complies with the requirements for:

- » EN 13499:2004, ETAG 004.
- » EN 13500:2004, ETAG 004.
- » EN 998-1: 2016.

METHOD OF USE

SUBSTRATE PREPARATION

- » All surfaces must be clean and free from dust, paint, oil, grease or loose materials.
- » 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.

TECHNICAL PROPERTIES @ 25°C:

Colour:	Grey and white
Fresh wet density (mixed):	1.65 ± 0.1 g/cm ³
Open time:	20 min
Pot life:	3 hr
Adhesion strength to the base:	≥ 1 MPa
EN 1015-12	ETAG-004 (EOTA)
Adhesion strength with EPS, XPS board and MW:	
after 28 days under normal conditions:	≥ 80 KPa
after 3 conditioning cycles:	≥ 80 KPa
EN ISO 13494	
ETAG-004 (EOTA)	
EN 1015-12	
Working temperature:	5 to 35°C

EN 998-1: 2016 Requirements

Water absorption:	Wc2
EN 1015-18	
Water vapor penetration coefficient:	μ ≥ 10
EN 1015-19	
Adhesion:	≥ 1 N / mm ² - FP: B
EN 1015-21	
Thermal conductivity coefficient:	0.43 W/m.K
EN 1745, (λ10, dry):	(tabular value; P = 50%)
Reaction to fire:	Class: A1
EN 1305-1	

- » All edges of the building need to be protected by PVC, aluminum or stainless steel angle bars.

PRIMING

Thermofix Flex can be applied directly on concrete, cement plaster and masonry. In case of very porous substrates or absorbent surfaces, such as gypsum-based materials, pre-apply a sealing primer.



Thermofix Flex

MIXING

To ensure proper mixing, a mechanically powered mixer or drill fitted with suitable paddle should be used. Add 6.5 - 7.0 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. Leave the resulting solution to stand for 4 - 5 minutes, stir again and Thermofix FLEX is ready for use.

APPLICATION

As adhesive:

Apply the mortar in a strip, on the edges around the insulation board with a few spots in the middle (3 - 4 points). 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 render/plaster:

Thermofix FLEX is applied with a notched trowel (tooth size 8 - 10 mm), evenly on the surface of the thermal insulation boards. Place the fibreglass mesh, and press with a notched trowel so that the mixture comes out over the mesh. Smooth the layer, ensuring that the reinforcing mesh remains in the top layer, approximately 1/3 depth. We recommend re-plastering after 24 hours so that the contour of the grid is not marked.

Note: Mesh strips have to be over lapped 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 Flex is available in 25 kg bags.

YIELD

Approximately 3 - 6 kg/ m².

STORAGE

Thermofix Flex has a shelf life of 12 months from date of manufacture if stored at temperatures between 5°C and 40°C.

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

CAUTIONS

HEALTH AND SAFETY

As Thermofix Flex 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 Flex is nonflammable.

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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.

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.