



# Thermofix Foam

One component, polyurethane based foam adhesive for heat insulation panels

## Description

Thermofix Foam is a ready to use, one component moisture cure polyurethane foam adhesive.

The unique composition of Thermofix Foam makes it ideally suitable to provide fast and high bonding strength to several type of construction substrate such as drywalls, heat insulation boards, masonry works and wooden substrates.

The low thermal conductivity characteristic of Thermofix Foam makes it the best option to fix and fill the gaps between thermal insulation panels on the facades and foundations, thus it provides an integrated thermally insulated system.

## Applications

- ▲ For permanent fixing of insulation boards such as EPS, XPS, styrofoam and stone wool on facades and foundation.
- ▲ Installation of roof tiles.
- ▲ Filling the joints between insulation boards.
- ▲ Isolation material for windows and doors frames.

## Advantages

- ▲ Excellent adhesion strength to all common construction substrates.
- ▲ Low thermal conductivity characteristic, enhances the performance of insulation boards when filling the gaps between them.
- ▲ Excellent acoustical properties.
- ▲ Easy to apply, single component packed in aerosol can.
- ▲ Can be over-coated by water based paints.
- ▲ Fast curing even at low temperature.
- ▲ High temperature resistance.

## Limitation

- ▲ Thermofix Foam cannot be used on Teflon, polyethylene and silicone surfaces.
- ▲ Do not leave the cured material exposed to UV radiation.
- ▲ Do not apply at ambient temperature below  $-5^{\circ}\text{C}$  or above  $30^{\circ}\text{C}$ .

## Technical Properties @ 23°C:

Specific gravity:	$27.5 \pm 2.5 \text{ kg/m}^3$
Tack free time:	$11 \pm 1 \text{ min}$
Trim time:	30 min for 30 mm bead
Full cure:	10 hr @ $23^{\circ}\text{C}$ 24 hr @ $5^{\circ}\text{C}$
Adhesion to EPS board:	$\geq 300 \text{ KPa}$
Adhesion to XPS board:	$\geq 350 \text{ KPa}$
Tensile strength: BS 5241	$\geq 10 \text{ MPa}$
Thermal conductivity:	$0.034 \text{ W/m.K}$
Service temperature:	$-45 \text{ to } 90^{\circ}\text{C}$
Fire rating: BS 476	B2 Class

## Method of Use

### Substrate Preparation

All surfaces must be clean from dust, loose particles and oil or any other contaminations that could affect the proper adhesion.

Cover and protect all the adjacent surfaces before the application of Thermofix Foam. It is recommended to slightly damp the surfaces with water to enhance the expansion and curing properties especially at low humidity areas (less than 50% RH).

### Application

Hold the foam can in upright position, fix the gun to the can by holding the gun handle with one hand, and turn the can with the other hand.

After fixing the gun, shake the can well to ensure proper mixing of the ingredients and maximum yielding.

Apply the foam adhesive to insulation boards evenly in parallel to the sides of the insulation board (3 cm from the edge) and one stripe in the middle, parallel to the longest side (up to 25 cm between adhesive stripes).

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After applying the foam adhesive to the insulation board wait 2 - 3 minutes and then press the board to the wall. The level of installed foam polystyrene boards can be adjusted within up to 5 minutes.

## Cleaning

Clean tools and equipment with acetone before the foam has completely cured. After curing, Thermofix Foam shall be cleaned mechanically.

## Packaging

Thermofix Foam is available in 750 ml aerosol can.

## Storage

Thermofix Foam should be stored in vertical position in cool and dry conditions out of the direct sunlight at temperatures between 5-30°C in its original cans.

## Shelf Life

Thermofix Foam has a shelf life of 9 months from date of manufacture if stored in proper conditions.

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

## Cautions

### Health and Safety

Thermofix Foam may cause sensitization by inhalation and skin contact. Ensure sufficient ventilation during application. Wear safety glasses and gloves. Keep out of the reach of children.

Cured material has no danger to health.

For further information refer to the Material Safety Data Sheet.

### Fire

Uncured Thermofix Foam is flammable material. Ensure adequate ventilation during the application. Do not use near a naked flame and do not smoke during application.

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- ▲ 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.