

Technical Datasheet

Monocouche® Monoflex Base TXF

APPLICATIONS:

A Component of the MONOFLEX TXF flexible insulation system for in external applications.

Adhesion of expanded polystyrene panels over walls made from conventional masonry materials that must have thermal insulation capacity.

Render specific carrier boards.

Surface reinforcement of expanded polystyrene thermal insulation panels together with MonoMesh TXF, achieving excellent resistance to abrasion, impact and water penetration due to capillarity.

SUPPORTING SURFACES:

As an adhesive: Masonry constructions, hardened mortar rendering, cast-in-place concrete and prefabricated concrete.

Render specific carrier boards.

As base reinforcement rendering: EPS panels with surface traction resistance greater than 100 KPa (0.1 N/mm²).

SURFACE COVERINGS:

MONOCOUCHE ACRYLIC TXF range of polymer rendering mortars within the MONOFLEX TXF range.

Cement rendering mortars modified with polymers according to EN998-1, types GP, CR or OC, such as MONOFLEX within the MONOFLEX TXF range.

Ceramic tiles with pliable adhesives.

Imitation stone, exposed brick, etc. prefabricated panels with C2TES1 or C2TES2 cement adhesive or any other pliable synthetic adhesive suitable for external applications.

TECHNICAL DATA

Composition: hydraulic binding agent, selected aggregates, special polymers and organic additives

Particle size: < 0,5 mm

Bulk density in powder: 1200±50 Kg/m³ Bulk density in paste: 1600±50 Kg/m³

Mixing water: 20-22 %

Application thickness:

As an adhesive: 3-5 mm

As rendering: 2-4 mm (in two layers including the reinforcement mesh)

Flexural strength: > 5,0 N/mm² Compression resistance: > 10.0 N/mm²

Adhesion as an adhesive over concrete or brick supporting surface:

Normal conditions (23°C and 50% R.H.): > 1,0 N/mm²

Two days in water immersion and two hours at 23°C and 50% R.H.: > 0,4 N/mm²

Two days in water immersion and seven days at 23°C and 50% R.H.: > 1,0 N/mm²

Adhesion as adhesive over EPS:

Normal conditions (23°C and 50% R.H.): 0,15 N/mm²

Two days in water immersion and two hours at 23°C and 50% R.H.: 0,09 N/mm²

Two days in water immersion and seven days at 23°C and 50% R.H.: 0,15 N/mm²

Adhesion as base rendering with mesh over EPS:

Normal conditions (23°C and 50% R.H.): > 0,08 N/mm²

After ageing (in EOTA chamber): > 0,08 N/mm²

Water absorption after one hour of the base layer with no surface covering (ETAG004):

< 0,1 Kg/m²

Water absorption after 24 hours of the base layer with no surface covering (ETAG004):

< 0,3 Kg/m²

Open time: 30 minutes Adjustment time: 40 minutes

Drying time as adhesive: 24 hours

Time for application of the decorative surface finishing over the base rendering: 7 days

DRY CONSUMPTION:

As an adhesive: 5,0-6,0 Kg/m² in continuous layer with a 10x10 mm toothed trowel.

As reinforcement base rendering: 1,27-1,37 Kg/m² per mm of layer.

Reaction to fire: Euroclass A1.

INSTRUCTIONS FOR USE

Do not apply at temperatures lower than 5°C or higher than 35°C

Do not apply in adverse climatic conditions, such as strong winds, rain, extreme heat or frost

Do not add sand, cement or any other product that modifies the original formulation

Once mixed, do not add additional water if the product is dry in the mixing vessel

Use polystyrene and MonoMesh TXF as recommended by MONOCOUCHE RENDER SYSTEMS or others that comply with EOTA ETAG004 requirements

For use as an adhesive, the polystyrene panel coverage must be greater than 40%

If the flatness differences on the supporting surface are greater than 0.5% (differences greater than 1 cm in 2 cm), the product must be applied in thick layer. If the difference in flatness is less, the product can be applied in fine layer

The joints between reinforcement mesh sections must overlap by at least 10 cm

Avoid breathing the dust and do not allow it to come into contact with the eyes or skin.

Consult the safety sheet for further information

1. Preparing the supporting surface:

Check that the supporting surface is free from dust and other residues and that it is not sodden with water

Fill holes and air pockets with a material compatible with the supporting surface, such as cement mortar in the case of brick or concrete block walls, repair mortars for bulk concrete blocks or prefabricated concrete

2. Mixing:

Mix the product with the quantity of water indicated

Mix with a concrete mechanical beater at low revolutions until total consistency is achieved. Also machine sprayable

Leave the mix to rest for 2-5 minutes and stir again, in the case of manual application

3. Application:

Apply the mortar over the supporting surface manually or with a spraying machine, spreading the material in a fine layer with a 10x10 mm square tooth trowel until covered with a continuous layer, or in a thick layer in the case of significant differences in flatness in the supporting surface, applying a continuous line of material on the edge of the adhesion side of the panel and a few drops in the middle

Apply the panel by pressing on the supporting surface while making slight circular movements to spread the paste better.

Wait 24 hours until the adhesive is hardened

Apply the product over the polystyrene manually or with a spraying machine until the entire surface is covered

Regulate the thickness by grooming with a 10x10 mm square toothed trowel

Place the reinforcement mesh over the fresh layer of mortar and embed it by pressing with the flat part of the trowel and smoothing with the edge of it

Apply the decorative finish once the material is hardened.

4. Cleaning:

All product residues can easily be removed with water before they harden

