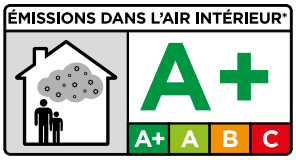
BENFERPLASTER-FI

Adhesive/levelling mortar, fiber reinforced for thermal insulation

- Adhesive and specific levelling mortar for exterior insulation and finishing system
- Fine grain size
- Extremely easy to use
- White
- Tested according to European regulation EN 998-1, GP-CSIV-W2
- CE



TECHNICAL FEATURES: BENFERPLASTER-FI is an adhesive/levelling mortar, fiber-reinforced for exterior insulation and finishing system, whose composition is cement, aggregates with selected grain size, fiber and synthetic resins and special additives. Its formula has been created and developed to paste in a rapid and safe way all the boards used in exterior thermal insulation. The product can also be used for levelling with the use of a fiberglass mesh on insulating panels and concrete surfaces.

AREAS OF APPLICATION:

Application and levelling with the use of a fiberglass mesh on insulating panels in polystyrene foam and polystyrene extruded, polyurethane, mineral fiber (ex. mineral wool, glass wool), synthetic and/or wooden on concrete surfaces, cementitious mortar, plaster, masonry.

CONTRACT ITEM SPECIFICATIONS:

The insulation boards must be applied with a cementitious, one-component adhesive, specific for an exterior insulation and finishing system, as BENFERPLASTER-FI by Benfer, by applying on the board a homogeneous and continuous coat, with a toothed trowel or spatula, suitable for irregular supports or applying it along the perimeter and with some central points. Subsequently, fix the boards with anchors suitable for your support. Achieve a levelling of the panels with a suitable product, such as BENFERPLASTER-FI by Benfer, reinforced with a scaffold fiber mesh of alkalis-resistant glass fiber of 160 g/m^2.

TECHNICAL ASSISTANCE

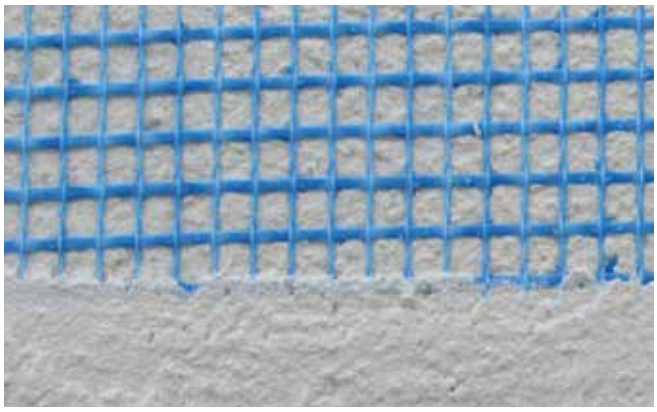
INSURANCE GUARANTEE

TECHNICAL MEETINGS

PROFESSIONAL USE

SUITABLE SUPPORTS:

- Concrete
- Cement-based plasters
- Cement blocks
- Masonry Bricks
- Masonry of regular stone material



METHODS OF USE:

SUBSTRATES PREPARATION:

The substrate must be solid, load-bearing in presence of tile coating, oil-free, grease and dust-free. The possible presence of paint, it must be in excellent conditions, washed and free from grease; in other cases, it is necessary to remove the paint accurately. In case of highly absorbing substrate, we recommend the previous use of STARPRIM or BENFERPRIM.

PRODUCT PREPARATION:

Mix BENFERPLASTER-FI with clean water in a clean container until you get a homogeneous dough.
Mixing ratio: 6,25 -7 lt of water for 25 kg of BENFERPLASTER-FI
Leave the mix standing for 2 minutes and then stir again accurately. Do not mix quantities of products which are higher than the quantity you can use during pot-life (2 hours).

PRODUCT APPLICATION:

The adhesive must be laid on the panel in a homogeneous and continuous coat with a trowel with teeth, suitable for irregular parts of the substrate or around the perimeter and some central points. Misalign the boards and pull them together without leaving the adhesive between joints. Always fix the boards with anchors suitable for your substrate.
Subsequently level the panels with BENFERPLASTER-FI dipping inside a suitable fiberglass mesh. Overlap the mesh for at least 10 cm in the jointing parts.

ADVICE:

- The adhesive which has already started to harden must not be restored with water or new adhesive. There is a risk of developing improper resistance.
- BENFERPLASTER-FI is a hydraulic hardening adhesive which must be protected from water and frost until it is completely hardened; it may need several days with unfavorable weather conditions.
- BENFERPLASTER-FI contains cement which has a reaction to alkalis to contact with damp and it is necessary: protect from contact of skin and eyes. In case of harm wash accurately with clean and fresh water. In case of contact with eyes take immediately contact with a doctor.

CLEANING: The cleaning of the tools must be done with a felt or a damp sponge before the adhesive starts setting.
CONSUMPTION: Consumption changes depending on how flat the supports, depending on the trowel and the type of application.
As adhesive minimum 3 kg/m^2; as a levelling product 1,4 kg/m^2 for every millimeter of thickness.
PACKAGING: BENFERPLASTER-FI is packed in poly-lined paper of 25 kg, supplied in pallet of 1500 kg.
STORAGE: In its original packaging, store in a fresh and dry place.
SHELF LIFE: 12 months from the date reported on the packaging.

PRODUCT TECHNICAL DATA

Classification according to EN 998-1:	GP-CSIV-W2
Consistency:	Cement, aggregates, additives, fibers
Colour:	White
Apparent mass volume:	1,25 kg/dm^3
Maximum grain size:	1,4 mm
Storage and shelf life:	12 months in original packaging, store in a fresh and dry place
Toxicity:	No. Possible irritation of the eyes and skin upon contact due to presence of cement
Inflammability:	No
Mix ratio:	25-28 %, 6,25-7 lt of water for 25 kg powder
Mixture consistency:	Creamy
Mass volume of dough:	1,70 kg/dm^3
Mass volume of hardened mortar:	1,40 kg/dm^3
Application temperature:	From + 5°C to + 35°C
Time of workability:	2 hours*
Minimum thickness for levelling panels:	5 mm
Consumption during application of panels:	Min. 3 kg/m^2
Consumption during levelling of panels:	1,4 kg/m^2/mm thickness
Final hardening:	7 days*
Compression strength:	> 6 N/mm^2
Flexural strength:	> 3 N/mm^2
Water absorption:	< 0,2 Kg/m^2 min ^{0,5}
Vapor permeability:	< 25
Adhesion to support:	> 0,5 N/mm^2
Thermal conductivity:	λ = 0,47 W/mK
Temperature resistance:	From - 30°C up to + 90°C, * at 23°C and 50% relative humidity

PLEASE NOTE: The information given in this chart is based on our best experience and indicative only. It must in any event be verified by the end user, who assumes all liabilities deriving from utilization of the product.