MARMOLINE
ADVANCED BUILDING MATERIALS

www.marmoline.gr
e-mail: info@nordia.gr
Tel.: (+30) 22950 22225
Fax: (+30) 22950 22120

FK 202

EN 998-1
GP/CSIV/W$_c$2

High performance, fiber reinforced adhesive & base coat for thermal insulation boards, with gel properties

DESCRIPTION

High performance, fiber-reinforced, polymer modified cement-based insulation boards adhesive with gel properties.

Ideal for the adhesion of expanded polystyrene (EPS) extruded polystyrene (XPS) as well as mineral wool (MW) boards on surfaces of concrete, render or brick masonry.

Reinforced with suitable fiberglass mesh, it can be used for base-coating of thermal insulation boards, on external and internal surfaces of buildings.

CE marked under EN 998-1 (general purpose plaster), it consists part of MARMOLINE MONOSIS ETIC System .

With EUROFINS Indoor Air Comfort Gold certification which ensures that FK 202 meets the strictest European regulations regarding VOC emissions.

The product is also accompanied by an Environmental Product Declaration (EPD) regarding the environmental impact during its life cycle. (EPD registration number: IES-0009040).

FIELDS OF APPLICATION

- In combination with suitable anchors it is used for the bonding of thermal insulation boards, on surfaces such as concrete, bricks, render, cement blocks, aerated concrete, stone, render, cement blocks, aerated concrete, stone, etc., on exterior and interior surfaces of buildings. The product can be applied both indoors and outdoors.
- In combination with the decorative finish coat renders, type SVR of MARMOLINE, it is used for coating of insulation boards of external thermal insulation of buildings.
- It is part of certified External Thermal Insulation Composite System (ETICS) of MARMOLINE.

FEATURES /BENEFITS

- Excellent workability
- High resistance to changes in temperatures (between heat and cold)
- High bonding strength between substrate and insulation materials
- High mechanical strength

www.marmoline.gr
e-mail: info@nordia.gr
Tel.: (+30) 22950 22225
Fax: (+30) 22950 22120

PRODUCT INFORMATION

Appearance/ color	Off-white powder (Color tone variations may occur between batches, as the raw materials include crushed white Dionyssos marble aggregates, which naturally shows fluctuations in shade)
Packaging	25kg - 1500 kg per pallet (60 bags)
Storage conditions	In the original, closed, sealed and indestructible package, protected from direct sunlight and frost and at temperatures from +5°C to + 35°C.
Lifetime	12 months from production date (stored in a closed container in a shady place)

TECHNICAL CHARACTERISTICS

Grading :	0-0,5 mm
Specific gravity of wet mortar:	1600 Kg/m³
Compressive strength in 28 days:	22 MPa (*Average value based on production control laboratory tests)* EN 1015-11
Flexural strength in 28 days:	6 MPa (*Average value based on production control laboratory tests)* EN 1015-11
Bond strength with EPS - XPS:	≥ 0.08 MPa - Cohesive failure in the insulation board (ETAG 004)
Bond strength with MW:	≥ 0.010 MPa - Cohesive failure in the insulation board (ETAG 004)
Pot life:	4 -6 hours, depending on the environmental temperature and period of application

APPLICATION INFORMATION

Environmental temperature	Temperature from + 5 °C to + 35 °C
Consumption	1.5 - 2.0 kg /m²/mm, when used as a base coat, with fiberglass mesh, on polystyrene or mineral wool. 3 - 5 kg /m², depending on the nature of the substrate, when used as insulation boards adhesive
Mixing ratio	About 6,5 – 7,0 kg (lt) of water /bag of 25 kg.

www.marmoline.gr
e-mail: info@nordia.gr
Tel.: (+30) 22950 22225
Fax: (+30) 22950 22120

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

The substrate must be stable, dry and free from dust, loosely attached particles and all kinds of dirt. In addition, the surface must be clean, without dust, salts or oil.

For application on new plastered surfaces, at least 2 weeks must have passed since plastering.

Highly absorbent surfaces are recommended to be primed with MARMOLINE MST 11.

APPLICATION

Mix the content of a 25 kg bag, with 6,5 - 7 lt of water, using a low-rev electric mixer until a homogeneous, lump-free mixture is obtained.

Leave the mixture to set for five to ten minutes and stir again.

<u>As an adhesive for thermal insulation plates:</u>

- *For smooth substrates:* The adhesive is evenly spread and combed over the entire surface using a notched trowel at a thickness of 2 - 3 mm.
- *For uneven substrates:* The adhesive is applied in stripes around the edges of the board and in 3 - 4 selected dabs in the center using a notched trowel.
- The adhesive must cover 40% of the board surface.
- Place and press the insulation boards starting from the bottom of the masonry crossways without gaps.

<u>As a reinforced base coat:</u>

- The installed insulation boards, on which the coating will be applied, must be "built" in the form of masonry and leveled.
- Be sure to cover any gaps between the insulation boards with polyurethane foam.
- Apply the mix all over the surface of the insulation board to a thickness of 2 - 3 mm.
- Place the appropriate MARMOLINE MONOSIS 160 fibreglass mesh to the prepared surface and press with a spatula or trowel until the mesh is fully embedded in the adhesive. The strips of the mesh should overlap by 10 cm approx. Finally, smooth the surface, while simultaneously removing excess mortar.

CLEANING TOOLS

With plenty of water immediately after use. Hardened and/or cured material can only be removed mechanically.

HEALTH, SAFETY & ENVIROMENTAL PROTECTION

Detailed information and instructions regarding the safe management of the product and in matters of Health & Safety, are provided in the most recent Safety Data Sheet (SDS), copies of which are available on the company's website https://marmoline.gr/ or upon request.

www.marmoline.gr
e-mail: info@nordia.gr
Tel.: (+30) 22950 22225
Fax: (+30) 22950 22120

LEGAL NOTICES

We guarantee the quality of the product, in terms of its technical specifications, as presented in the technical data sheet. This guarantee is strictly only for the available product and in no case the final result from its application, which depends to a large extent on the experience and quality of work of each user, as well as the conditions of application.

It is recommended that the user apply the product on a small scale and after making sure of the result, then use it in his project.

Publication of this technical data sheet supersedes any previous version.

MARMOLINE reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

CE
16
DoP: 206 MAR-CPR

NORDIA SA
364 Kifissias Av., 15233 Chalandri, Athens, Greece

EN 998-1:2016
MARMOLINE FK 202
General purpose mortar
(GP/CSIV/ W_c2)

Reaction to fire:	A2-s1,d0
Capillary water absorption :	W_c2
Water vapour diffusion coefficient :	μ= 5.5
Adhesion after weathering cycles	≥2.2 N/mm² (FPc)
Durability	NPD
Thermal conductivity/density *(tab. mean value; P= 50%)*	($\lambda_{10,dry}$) 0.16 W/mK
Dangerous substances:	See product's SDS