

ARGOTEC® FIXTHERM ÉLITE

FIXATION MORTAR AND
EPS, XPS AND MW PLATES'
COATING FOR ETICS

NetZero

TECHNICAL
MORTAR



ARGOTEC® FIXTHERM Élite NetZero is a modified polymer mortar with compensated shrinkage for the adhesion and fixation of insulating plates of expanded polystyrene, extruded polystyrene and mineral wool, for the external thermal insulation system (ETICS). ARGOTEC® FIXTHERM Élite NetZero is formulated with Portland cement, selected aggregates, organic additives, fibers and synthetic resins that provide workability, water retention, open time and mortar adhesion.

ADVANTAGES

- Manual or mechanical application. Projectable
- Waterproof to rainwater and permeable to water vapor.
- High deformability: It allows absorbing differential stresses in the hardened state.
- Great resistance to impact.
- High water retention capacity.
- Excellent workability.
- High adhesion on XPS, EPS, MW and support.

SUPPORT

- Fixation of insulating plates: XPS, EPS and MW.
- Bricks or ceramic blocks factory.
- Mortar rendering.
- Concrete block.
- Concrete (treated with a bonding bridge).
- Wooden boards type OSB 3 or SuperPan TECH P5.

USES

- Adhesion and protection of extruded polystyrene (XPS), expanded polystyrene (EPS) and rock wool (MW) plates in external thermal insulation systems.
- Regularization and protection of insulating materials (XPS, EPS and MW) in the Exterior Thermal Insulation System.
- Rehabilitation of facades with DANOSA's anti-cracking system.

PREPARATION OF THE SUPPORT

The previously mentioned supports must be sound, clean, free of painting residues, badly adhered parts or substances that may hinder adherence. All supports must have an adequate planimetry. The support must not have evident humidity problems and, when applicable, it must have finished its curing retraction having respected its maturation period. Do not apply on plaster or paint.

FIXATION MORTAR AND EPS, XPS AND MW PLATES' COATING FOR ETICS**APPLICATION METHOD**

- Mix ARGOTEC® Fixtherm Élite NetZero with 5.0 L of clean water per 25 kg bag manually or with an electric mixer until a homogeneous, creamy and lump-free mixture is obtained.
- Let stand 5 minutes before application.
- Adhesion of insulating plates: apply on the plate a perimeter cord 4-8 cm wide and 2-4 cm thick and several pellets in the center of the plate of 8-10 cm in diameter, depending on the size of it. The coated surface of the board must be at least 60% for EPS / XPS boards and 80% for MW. Alternatively, and for supports that present a correct planimetry, the adhesive can be spread and combed over the insulating plate using a notched trowel. In this way, a homogeneous distribution of the adhesive is obtained throughout the plate.
- Regularization and protection of insulating plates: After at least 24 hours have elapsed after adhesion of the plates, fix the corner profiles and the reinforcement meshes of the holes and insert the mechanical fixings and regularize the existing levels in these, with the same ARGOTEC® Fixtherm Élite NetZero mortar.
- Conveniently deal with singular points.
- Spread a layer of product directly on the insulating panel and then adjust the thickness with a trowel.
- Unfold the 160 gr/m² reinforcing mesh from top to bottom, overlapping at least 10 cm between the different sections and pressing it until it is embedded in the mortar. This layer must be at least 2 mm thick and the grid of the embedded mesh must be visible on the surface. Once this first coat is dry, proceed to apply the second coat of ARGOTEC® Fixtherm Élite NetZero in a thickness of 1-3 mm in a smooth finish.
- The finish of the system should be applied after 48 hours minimum from the application of the last layer of adhesive mortar.

PRECAUTIONS

- Expansion joints interrupting the system must be respected.
- Do not apply on plastic or metal. To apply on wood fibers, guarantee adhesion on 100% of the support.
- Do not apply below 5 °C or above 30 °C.
- Do not apply with risk of frost, rain, strong winds or direct sunlight.
- Do not apply in areas where there is a risk of standing water.
- The range of accessory elements must be used: corner profiles, boot profiles, etc ...
- It is necessary to place mechanical fasteners complementary to gluing. At least 6 dowels per square meter and 8 fixings in height greater than 25 m.
- Prior to the leveling layer, the critical points of the work must be reinforced (edges, gaps in doors, windows, etc ... by placing 160 gr/m² reinforcing mesh using ARGOTEC® Fixtherm Élite NetZero.
- The system should never be lined with conventional single-layer or cement mortars.
- The finishing areas of the metal profiles will be sealed with elastic putty.
- Protect if heavy rains are expected in the 24 hours after installation.

PRESENTATION AND CONSERVATION

ARGOTEC® Fixtherm Élite NetZero is packed in multilayer paper bags of 25 kg with anti-humidity layer that allow its correct conservation during 12 months in its closed original package safe from humidity

TECHNICAL DATA

Identification and application data	
Appearance	Powder
Colour	White
Apparent densit	1.60 kg/L
Particle size range	0/0.6 mm.
Mixing water	20 %
Minimum thickness	2 mm
Maximum thickness	5 mm
Yield	1.5 - 2.0 kg
Performance data	
Resistance to compression 7 days	≥ 6.0 MPa
Resistance to compression 28 days	≥ 12.0 MPa
Adhesion to wood fiber support	≥ 0.22 MPa
Adhesion on concrete	≥ 0.8 MPa
Adherence on EPS plate	Cohesive in the support
Thermal conductivity	0.47 W/mK (tab.)
Capillary absorption	0.2 kg/m ² min ^{0.5}
Reaction to fire	F
Hazardous substances	According to 5.2. See HS.