

USE

Mineral smoothing/adhesive plaster for bonding and coating insulating panels suitable for thermal insulation systems, such as expanded and extruded polystyrene, cork and mineral fibre panels, indoors and outdoors on walls and ceilings, on brick substrates, solid brick, new or old plaster, concrete and, after application of Acrilifix Special primer, also on gypsum-based substrates.

COMPOSITION

Adhesive/plaster based on hydraulic cement binders, selected aggregates (silica sand) and additives that ensure high adhesion and final strength.

PROCESSING

Warnings:

Do not apply on metal surfaces or surfaces subject to strong deformation such as fibre cement panels.

Do not apply on panels with protective films or particularly smooth surfaces.

In the case of the application of wood fibre panels, check the absorption, if it is not suitable it would prejudice the durability of the building.

Protect the surface from rain, washout, strong wind for at least 48 hours after laying, and from frost or direct sunlight for at least 7 days after laying.

Do not apply on frozen substrates or at temperatures below + 5°C.

The application temperature of the product must be between +5°C to +35°C;

Do not add other materials to **50**.

When laying eps panels with graphite, the installation instructions of the insulation manufacturer must be strictly adhered to; however, it is recommended to use the shading sheet to protect the panel from direct sunlight and to dowel the insulation surface immediately after gluing.

Check the suitability of the insulation panel and its application method in combination with **50** for correct installation in thermal insulation systems.

Substrate preparation: Remove loose materials. Remove oils, release agents, dust, efflorescence, salt deposits, any coatings that are not perfectly adherent and stable. Check that the substrate is sufficiently flat, dry and free of rising damp.

Ensure that newly manufactured substrates have reached full maturity (normally 28 days after installation, as stated by the manufacturer).

Mixture preparation: 50 is to be mixed with:

5.5 ÷ 5.75 litres of clean water per 25 kg bag (for gluing the panels)

5.75 ÷ 6.5 litres of clean water per 25 kg bag. (for plastering the panels)

Use a drill with a whisk at low speed until a plastic, homogenous mixture is obtained within 3 minutes of mixing.

Allow to stand for about 5 minutes, before use remix for about 15 seconds.

Bonding the Panels: The bonding surface must be at least 40% of the total panel surface. A bead of adhesive **50** with a width of approximately 3 ÷ 5 cm and a thickness of approximately 2 cm is laid along the edges and the diagonal of the panel, when the expansion dowels are to be fixed, they must be inserted when the adhesive has hardened (depending on the weather conditions, 1-3 days). The number of dowels to be inserted varies from a minimum of 6 to 12 dowels/m² and depends on the type of work to be carried out. In the case of gluing on planar surfaces where the thickness of the adhesive does not exceed 1 cm, it is possible to dowel the panel immediately after the gluing phase.

Surface smoothing:

- Insulating panels:

Reinforced Plaster coat: After the adhesive layer has dried (approx. 2 ÷ 3 days), the coat **50** is spread over the entire surface of the panel and then the reinforcing mesh is spread by overlapping one strip with the other by ten centimetres (positioned outwards at 2/3 of the total thickness of the skim coat and covered with 1/3 of the skim coat).

Finish smoothing: Apply the material using an American putty knife.

A civil type finish can be obtained by using a sponge trowel. After application, wait at least 14 days before applying thick coatings. During the summer season and/or in case of wind, the surface must be treated and moistened by spraying clean water for at least 48 hours.

- Background plasters:

Reinforced Plaster coat: spread a first layer of **50** evenly and homogeneously using a steel trowel, drown the reinforcing mesh by overlapping one strip with the other by ten centimetres, then drown it by applying a second layer fresh on fresh so as to create a reinforced single layer. For the mesh to be fully effective, it must be completely drowned one third of the single layer.

Finishing smoothing: Spread the material using an American trowel. A civil type finish can be obtained by using a sponge trowel. After application, wait at least 14 days before applying further finishes. During the summer season and/or in case of wind, the surface must be treated and moistened by spraying clean water for at least 48 hours.

PRESERVATION AND STORAGE

The product will keep for up to 6 months in unopened packages at a temperature of +5°C to +30°C in a cool, dry and frost-free place. Avoid exposing the bags to direct sunlight for a long time. Once the polyethylene protection of the pallet has been removed, protect the bags from rain.

TECHNICAL FEATURES

	Value	Normative Ref.
SPECIFIC WEIGHT (hardened mortar)	1.4-1.5 kg/l	UNI EN 1015-10
CONSUMPTION (indicative depending on type of substrate)	- adhesive: 3.5-4.5 kg/m ² - skim coat: 1.3-1.4 kg/m ² /mm	
RECOMMENDED THICKNESS	- adhesive (depending on the type of insulation): 20 mm - smoothing coat (with embedded mesh): 3-5 mm	
ADHESION	On concrete: ≥ 1 N/mm ² On brickwork: ≥ 0.6 N/mm ²	UNI EN 1015-12
GRANULOMETRY	Max. 0.6 mm	
COLOUR	Grey	

COMPRESSIVE STRENGTH Category	≥15 N/mm ² (28 days) CSIV	UNI EN 1015-11
REACTION TO FIRE	Euro class A1	UNI EN 13501-1
THERMAL CONDUCTIVITY	0,47-0,54 W/mk (tab)	
WATER VAPOUR DIFFUSION COEFFICIENT	μ : ≤25	UNI EN 1015-19
WATER ABSORPTION Category	< 0.2 kg/m *min ^{20.5} Wc2	EN 1015-18
APPLICATION TEMPERATURE	+5°C+35°C	

SPECIFICATION ITEM

Adhesive-smoothing powder suitable for the construction of 'overlay' insulation systems with insulating panels with an average consumption of 4 kg/m² for spot gluing and 1.35 kg/m² /mm for smoothing.

WARNINGS

In order to carry out the work in a workmanlike manner, it is essential to follow the surface preparation instructions in the CAP Arreghini books,
The specification data were determined at +20 ± 1°C with an ambient relative humidity of 65 ± 5%. Under different conditions, data and times between operations vary.

The technical information contained herein is indicative only. Due to the enormous variety of substrates and application conditions, it is recommended to check the suitability of the product and its effectiveness by means of tests carried out on the specific application.