

## USE

Reinforced adhesive plaster suitable for bonding and skimming of insulation products homologated and certified and suitable for thermal insulation (polystyrene panels, cork, wood or plant fibres such as hemp or minerals) on the wall or on the ceiling, indoors and outdoors, on cement plasters, concrete, and after application of the appropriate primer on screeds based on gypsum.

Suitable for shaving or army of preparation to finishing, concrete surfaces and plasters (make sure these have reached full maturity), **401** offer the following plus:

- Silica sand contained gives the product excellent workability and final strength
- Excellent adhesion on different types of substrates (plaster, concrete, bricks or blocks, panels, etc.).
- The high initial adhesion avoids the sliding of the panel from the support
- High mechanical resistance to compression
- Outstanding impermeability
- Excellent resistance to freeze/thaw cycles
- contains fibre
- High impact resistance.

## COMPOSITION

Skim plaster / adhesive based on specific hydraulic binders NHL 5, selected aggregates of quartz silica graded, fibres and additives that give a, high adhesion, water resistance, thixotropic and ultimate strength.

## PROCESSING

### Warning:

Do not use on metal surfaces or surfaces that have large deformations, such as panels in fibre cement.

Do not apply to panels with protective films or that are extremely smooth.

Nel caso di applicazione di pannelli in fibra di legno verificare l'assorbimento, nel caso in cui non fosse idoneo comprometterebbe la durabilità del manufatto, potrebbero verificarsi inoltre macchie di tannino sulla finitura.

Protect the artefact from rain, rain showers, strong wind for at least 48 hours after laying, and protect from frost or sun for at least 7 days after laying.

Do not apply to frozen surfaces or at ambient temperatures below + 5 ° C.

The application temperature of the product must be between +5 ° C and +35 ° C.

Do not add other materials to 401.

**Surface preparation:** Remove any inconsistent material. Remove oils, release agents, dust, efflorescence, salt deposits, and any paint coatings, which are not perfectly adherent and stable. Ensure that the surface is sufficiently dry and absent of increasing dampness.

**Preparation of 401 mixture:** it's ready to use is should be mixed with:

**5.5** litres of clean water every 25 Kg bag. (for fixing the panels)

**5,75** litres of clean water every 25 Kg bag. (for levelling out the panels)

Use a whip drill at low speed until you obtain a mixture, which has a plastic consistency and is homogeneous within 3-5 minutes of mixing.

Allow setting for about 10 minutes; prior to the application remix it for about 15 seconds.

**Fixing the panels:** The adhesive surface must be at least 40% of the total area

of the panel. Along the edges and on the diagonal margins of the panel lay a strip of 401 glue with a width of about 3 to 5 cm and a thickness of about 2 cm. When the fixing of the appropriate expansion bolts are expected, immediately insert them after the beating of the panel (the quantity of plugs to be used varies according to the type of insulation). In the case of application of wood fiber check absorption, in case it wasn't suitable therefore impair the durability of the product, you may experience also spots of tannins on the finish.

#### Levelling of the surface:

##### **Insulating Panels:** Reinforced skim plaster:

After allowing the adhesive layer to dry (about 2 ÷ 3 days), apply 401 skim plaster over the entire surface of the panel and then emerge the reinforcing mesh one layer on top of the other to obtain a thickness of ten centimetres (which is positioned outwards to 2/3 of the total thickness of the skim plaster and covered 1/3 by the skim plaster). For drying of the first layer (about 24 hours) spread the second layer of shaving using a steel trowel until you get a layer of shaving total of 5 mm.

##### **Background plasters:**

**Reinforced skim plaster:** spread a layer of 401 evenly using a notched steel trowel, emerge the reinforcement mesh and apply subsequent layers until you reach ten centimetres, emerge it by applying a second coat on the already wet layer to create a single reinforced layer. For a guaranteed excellent efficacy the mesh must be completely embedded up to a third of the single layer.

**Levelling finish:** proceed with the application of the material by using a palette knife. It is possible to obtain an ordinary finish by using a sponge float. After application, wait at least 21 days prior to the application of other finishes. During the summer and / or in the case of wind, the surface must be kept and made wet by spraying water for at least 48 hours.

## CONSERVATION AND STORAGE

The product can be stored up to 12 months in unopened packages.

The product must be stored at temperatures between +5 °C and +30 °C in a cool, dry place away from frost. Avoid exposing the bags for a long time to direct sunlight. After removing the protective polyethylene pallet, protect the bags from rain.

## TECHNICAL FEATURES

	Valore	Rif. Normativo
<b>SPECIFIC WEIGHT</b> (Hardened mortar)	1,3-1,4 kg/l 1.45-1.55	UNI EN 1015-10 UNI EN 1015-6
<b>DRY RESIDUE</b> (in weight)	100%	
<b>YIELD</b> (indicative depending on the type of base/foundation)	- Glue: 4-4.5 kg/m <sup>2</sup> - Skim plaster: 1.4-1.6 kg/m <sup>2</sup> /mm	
<b>RECOMMENDED THICKNESS</b>	Glue (depending on the type of insulation): 20 mm - Skim plaster (with embedded	

	mesh): 3-5 mm	
<b>ADHESION</b>	< 0.8 mm	UNI EN 1015-1
<b>PARTICLE SIZE</b>	White	
<b>REACTION TO FIRE</b>	Euro class A1	UNI EN 13501-1
<b>COMPRESSIVE STRENGTH</b>	≥ 8 N/mm <sup>2</sup> (28 days)	
<b>WATER VAPOR DIFFUSION COEFFICIENT</b>	EXCELLENT	
<b>WATER ABSORPTION Category</b>	< 0.2 kg/m <sup>2</sup> *min <sup>0.5</sup> W2	UNI EN 1015-18
<b>APPLICATION TEMPERATURE</b>	+5°C+35°C	

## SPECIFICATION ITEM

Powdered adhesive-coat plaster, based on natural hydraulic lime NHL 5 and quartz sands suitable for the production of insulating systems "thermal insulation coating" with polystyrene panels with an average consumption of 4.25 kg/m<sup>2</sup> for fixations and 1.5 kg/m<sup>2</sup>/mm for levelling out.

## INSTRUCTIONS

To carry out the work in a proper way, it is needed to strictly follow the instructions for the preparation of the surfaces contained in the CAP Arreghini Books. This technical information is intended as a rough guide. However, because of the enormous variety of media and application conditions, it is essential to check the suitability of the product and test the effectiveness on a sample. The specification data and technical information have been calculated at +20 ± 1 °C with relative ambient humidity of 65 ± 5%. In different conditions the data and the time intervals between the two phases of the above reported coating system can vary.