

AEROPAN *INSTALLATION*

EXAMINATION OF THE EXISTING SUPPORT'S CONDITION

The flawless preparation of plaster layer is the fundamental requirement to obtain the perfect flatness of the base. A support with the appropriate flatness guarantees the correct creation of a system which involves the use of an ultra-low thickness insulator. It is important to underline the necessity of preparing a cohesive and dust-free base: this is what allows the perfect adhesion of the glue. In case of necessity, it is appropriate to proceed with the application of a surface fixing primer.

GLUE

The application of the adhesive must be realized on the back of the panel (the part with the rigid crust is the one that must remain external and receive the final finishing and smoothing); use a notched trowel (teeth of 6-8 mm) and, by applying an appropriate pression, lay the adhesive evenly on the entire surface of the panel. The adhesive must not penetrate the joints, but if it does, they must be filled with the same insulating material to prevent the formation of thermal bridges and possible cracks.

No air must circulate between the insulation panel and the support; hence the insulating panel must be fixed to the support in an even way, applying the adhesive on the entire surface of the panel itself. To guarantee a better adhesion, it is possible to apply a layer of adhesive on the support too (use the same notched trowel).

Afterwards, apply the panel on the support, carefully making sure that every area adheres properly (if necessary, use a trowel to beat the surface of the panel); verify the perfect adhesion and flatness with the use of an aluminum straight edge.

DOWELS

The insulating slabs must be mechanically fastened using dowels.

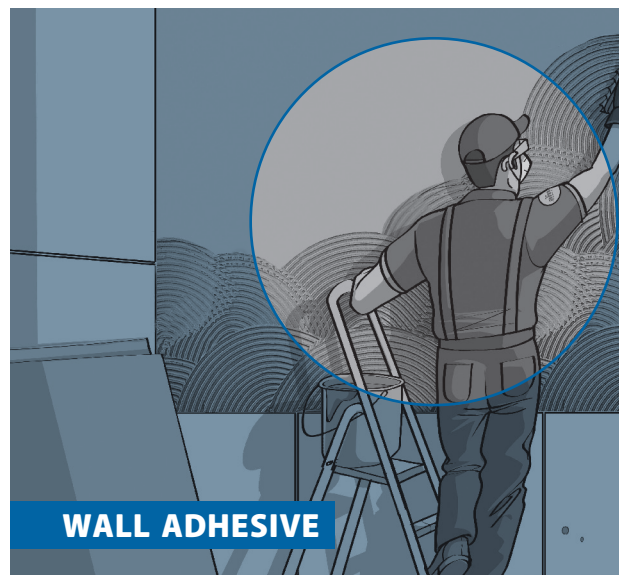
The dowel installation diagram and number of dowels varies according to the type of wall, but at least 6 plugs per square meter must be installed.

The choice of the appropriate dowel will depend on the length and type of the support.

The length of the plugs will depend on the anchor depth, on the thickness of the old plaster, the glue and the insulating material.

The plugs must be installed after the hardening of the adhesive, carefully maintaining a minimum distance of 15 cm from the corners of the panel.

Use exclusively DIPK Fischer dowels or similar ones.



SMOOTHING

The same product used for gluing the panel, can be used for the smoothing process. This step necessarily requires 2 coats.

- The first coat amounts to 2/3 of the total final thickness and must be applied with a 5mm American notched trowel.
- After the first coat, the reinforcing mesh, which is a fundamental element to prevent the creation of cracks between the joints of a panel and the other, must be applied
- The second layer must be applied with a smooth spatula
- We recommend applying at least 1.5 Kg per mm of thickness.

REINFORCING MESH

Fiberglass mesh is used to prevent cracks which could be appear in the facade due to the mechanical forces and heat fluctuations that it must endure. This also is useful to prevent cracks between the joints of the panels.

The fiberglass mesh will have to be treated with a primer, which involves a treatment to protect it against the alkalis contained in the smoothing product which could damage it.

It must also have a good weight, between 160-220 g/m².

The net should be placed in the outer third of the shaving layer. The inner corners of architraves-intrados must be armed with strips of net in addition to all the corners of the openings, in which a special edge protector must be placed.

PRIMER/FIXATIVE

Using a primer/fixative prepares the surface - which will then be covered with the finishing coat - and makes it uniform, with the aim of avoiding color irregularities due to different reactions between materials and/or different absorption capacities.

FINISHING

The system must be protected from the weather with thick finishing coats or by painting.

Various types of products are available on the market: silica, siloxane, acrylic, vinyl, quartzes, etc.

Among this variety of alternative products, we always recommend using the best ones in terms of quality and breathability.

