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ARCHITECTURAL CONCRETE PANELS 15 MM

PRODUCT WARRANTY CONDITIONS AND INSTALLATION MANUAL

Panels made of architectural concrete are intended to be used as a cladding of perpendicular surfaces, indoors walls and facades. Concrete panels have to be installed on stiff and strong surfaces which can lift load up to 45 kg/m². Unstable surfaces (e.g. buildings made of plaster-cardboard materials) need to be toughened with OSB.

MATERIAL SPECIFICITY

- Architectural concrete is a material textured with natural irregularly-shaped voids and pinholes of varying number and intensity.
- its natural feature is its colour variability and discoloration
- the aesthetic feature of this material is its variability, diverse void arrangement, different diameters of crampions and pores on the face
- the natural feature of the material is its water absorption, it changes the colour temporarily or permanently when in contact with water and other liquids.
- slight shrinkage cracks may appear on the surface of the slabs after fixing, they do not directly impact safety, they are a natural feature of architectural concrete

WARRANTY PERIOD

The manufacturer provides a warranty for the product for a period of 12 months following the date of purchase.

WARRANTY INCLUDES

- non-compliance of the linear edge of materials with deviations greater than 0.5% from the normative expectations
- incompatibility of the linear diagonal of the material greater than 0.5%
- axial non-compliance of dimensions with normative deviations greater than 1%
- detected defects of the slabs, not resulting from the specificity of the material, reported before the installation

VERIFICATION OF PANEL DIMENSIONS

Before installation, the dimensions of the panels should be verified – curvature (axial incompatibility). All panels undergo a dimensional control process in the manufacturing plant. It is noted that linear deformations are natural for the production process. Any incorrectness in the assembly may affect the linear deformation, and thus may be mistakenly considered a product defect.

Typical symptoms of using the wrong glue are bent corners, concave or convex edge failure, stains after gluing. All claims in this respect should be directed to the assembly contractor.

WARRANTY DOES NOT COVER

- effects of installation on a surface prepared not in accordance with the manufacturer's recommendations or unsuitable for installation of the elements in accordance with the guidelines for surface preparation
- mechanical damage in transit (if they have not been reported to the forwarder and a complaint protocol has not been drawn up)

- due to an error of the user or installation worker, as well as random and atmospheric events
- aesthetic effects resulting from the "specificity of the material" Conditions for the implementation of warranty services:
 - assembly in accordance with the guidelines
 - adaptation of the surface in accordance with the guidelines
 - proper preparation of the slabs before/for assembly

WARRANTY CLAIM

The buyer is obliged to report the detected defects within 14 days following the date of their occurrence. Within 14 days following the date of receipt of the notification, the guarantor will inform the user about the method and date of "repair" or the refusal to recognize warranty claims in the cases specified above.

INSTALLING THE PANEL WITH GLUE

Mapei ELASTORAPID glue and Grunt Eco Prim Grip should be used to install the panels. The intended purposes of the glue include laying concrete slabs, requiring quick drying of the adhesive mortar. It represents a proven solution for the installation of architectural concrete, ceramic tiles, gres and natural stone in places exposed to high loads. It is important to follow the glue manufacturer's recommendations.

Do not install 15mm concrete slabs at a height of more than 260 cm using the glue alone. It is recommended to anchor the panels instead.

RECOMMENDATIONS AND GUIDELINES FOR THE PREPARATION OF THE SURFACE FOR PANEL INSTALLATION

1. Preparation of the panels for installation

Before installing the panels, unpack them from the foil and put them on a flat surface to arrange their position on the wall (air voids intensity, colour differences), and then turn them over (glued surface) upwards. Place the panels on an even, secured against dirt and damage surface (e.g. on the cardboard), then leave for 48 hours to equalize the humidity and temperature levels. In the event of any convexities or deformations (panel bends), the panel should be placed with the

bulged side up and left for a few hours to return to its correct shape.

2. Preparation of the surface for adhesive bonding

The technical bonding surface of the panel is rough.

Apply the Mapei ECO PRIM GRIP primer on the panel bonding surface to prevent the panel from absorbing water from the adhesive mortar. For this purpose, you can also use a mixture of acrylic primer and fine quartz sand.

The panels should be primed very carefully, at least 24 hours before their installation.

The bonding surface (wall) should be primed with ECO PRIM GRIP primer in accordance with the recommendations of the primer manufacturer.

NOTICE

All plasters on which the panels will be mounted must, in accordance with the technology, obtain their maximum strength parameters (maturation). The manufacturer of the panels is not responsible for the deformation and detachment of the panels from the incorrectly prepared surface, which does not have the appropriate load parameters for panel installation.

It is unacceptable to stick to smooth surfaces such as plaster finish, fresh plasters, which have not obtained the maximum strength parameters, painted surfaces, other smooth plasters, such as stucco, and gypsum plasters, without their prior removal. If the gypsum plaster cannot be removed, it is recommended to mount it on the wall with screws. Before mounting the panels with screws, reinforce the plaster-cardboard panels with the OSB (Oriented Strand Board) in order to toughen the load-bearing structure.

Failure to comply with the above will jeopardize stability of the bonding and adhesion of the element, which may cause the elements to fall off the wall! Any complaints in this respect are not accepted and are unequivocally regarded as faulty engineering.

APPLICATION OF THE GLUE / ADHESIVE

The maximum dosage of the total thickness of the glue cannot be greater than 15 mm. The wall, cleaned of unstable surface, should be covered with a layer of glue using a flat trowel with a clamp, and then the glue layer on the wall should be combed using a comb trowel in accordance with the guidelines of the glue manufacturer

Before gluing, the installation side of the panels should be covered evenly with a layer of glue and pressed so that it completely fills all unevenness. We connect the elements with the edge alignment.

It is forbidden to strongly bend and unevenly press the panels or "level" possible arched bends by "straightening" the panel. Cracks in the material resulting from such action are not grounds for complaint and will not be accepted. It is considered faulty engineering!

Gluing "on spots", without pressing the adhesive on both surfaces results in unstable bonding. The material that is not coated with glue on the entire surface may be subjected to stresses as the glue dries, it may deform, bend and crack the panels. Correcting the arrangement of the panels after initial bonding with glue, harms the bond.

NOTICE

Skipping any of the gluing steps, careless preparation of the surface (substrate), introducing own "modifications," making the adhesive mixture not in accordance with the manufacturer's instructions or using other than indicated masses and adhesives, may result in unstable bonding, material bending, stain removal, material falling off the wall, or delamination. The above is not a technical defect of the material and results from a faulty engineering for which the installation worker is responsible.

The material is hygroscopic, which means it readily attracts water from the adhesive mortar, especially when it is improperly prepared. Any glue stains on the surface of the panels should be removed on an ongoing basis to prevent the glue from drying on their surface.

When gluing at low heights and small surfaces (e.g. individual panels in a kitchen), the installation is also possible using polyurethane, low-pressure

adhesives.

The polyurethane adhesive is applied to the panels in strips 4-5 cm wide, not closer than 3 cm away from the panel edge.