LUTKAY AGRY
G.T & CONSTRUCTION CONTRACTING

AKRE STYROBOND 2052

Description:

Adhesive cement clay for thermal insulation panels (XPS) supported by fiber-reinforced to prevent cracking.

Uses:

- used in external and internal works in construction according to the international EIFS system (external wall cladding uses solid insulating panels XPS on the outside of the wall covering).

- used as a thin base layer to achieve the cohesion of the final cladding layer above it.

-Final coating layer on thermal insulation panels to form a connection between insulation panels and other cementitious materials and even smooth surfaces.

- Prevent the formation of cracks and fissures.

Properties:

-High adhesion and bonding strength.

-Resistant to deformities in the event of temperature changes.

-Non-slip.

- High crack resistance for containing fibers and special polymer processing.

- Good insulator for water and moisture.

- High flexibility for collisions

-Good use time up to 3 hours inside the bowl after mixing.

Steps of application:

1- **Preparation of substrate :**

- The surface must be solid and free of the residue of all kinds (cement, coating, oil materials, dust, etc...) It must be completely dry.

- The surface should be free from cracks and fissures so it is preferred to be repaired using **AKRE REPAIR 720.**

2- **Application :**

- **Mixing** :

- Add **AKRE STYROBOND 2052** slowly to the amount of clean water in the mixing bowl (water ratio 24-26%) while avoiding adding any other substances during mixing, then mix using a low-speed mechanical mixer, quietly and for 2 minutes until we reach a homogeneous mixture, free of clusters, let the mixture rest for 2 minutes, then re-mix for 1 minute, and the mixture is ready to apply.

Installation:

a- As an adhesive layer on the wall:

- AKRE STYROBOND 2052 applies on the surface and the back side of the insulation boards (XPS) using a notched trowel to determine the thickness in a range (1-2 mm) , then place the board on the wall with slight movement and pressure to ensure the distribution of the adhesive.

B - As a finishing cladding layer:

- 24 hours after installing the boards a new layer of **AKRE STYROBOND 2052** adhesive is implemented on the exterior of the boards using a smooth trowel with a thickness of 2mm.
- FIBER-GLASS grille can be added on the adhesive mud and pressed within it well and then spread a finished layer of AKRE STYROBOND 2052 on the grille to ensure it is fully covered with surface leveling (2-3 mm) thickness thus we get a final surface supported and smooth.
- The consumption is **(~ 25KG / 4-5 m^2 / 3-4 mm)** on average, as this ratio changes depending on the application conditions and surface properties.
- After at least 5 days of finishing work, we can perform the final finishes paint, paste decoration... etc.

Post-application recommendation:

- Do not use the remaining mortar after the time of its validity in the bowl.
- It should be kept away from water for 24 hours after installation.

Cleaning:

- Clean equipment and hands with direct water
- Clean the surface of the stuck material after installation with a wet cloth.

Storage:

- Storage in relatively dry warehouses away from humidity and direct sunlight.
- No more than 10 bags should be placed on top of each other during storage.
- shelf life 12 months in appropriate conditions.

Packaging:

- Multi-ply paper bag 25 kg.

Safety recommendations:

AKRE STYROBOND 2052 is a cement chemical compound containing substances that cause eye irritation and skin sensitivity so the following safety instructions must be adhered to :

- Wear gloves and goggles while working.
- Wear masks to protect respiratory health.
- Any scratch on the skin or eyes should be treated with pure water immediately.
- If the substance is ingested by mistake, a doctor must be checked immediately without attempting to stimulate vomiting.

Technical properties	
Appearance	**powder**
Color	**White - Gray**
Density	**1.7 ± 0.02 kg**
Mixture density	**1.56 ± 0.02 kg**
Compressive strength 28 days	**35 MPa**
Tensile adhesion strength 28 days	**(Flow table 15 Strokes) = 160 mm**
POT Life in the bowel	**3 Hours**
Initial dry time	**6 Hours**
Final dry time	**24 Hours**
Water absorption	**0.95 %**
Water ratio	**24-26 %**
Consumption	**(~ 5 KG / 4-5 m^2 / 3-4 mm)**