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NIVAKİM NIVAPLAST LF

Definition

Cement-based surface plaster for thermal insulating boards.

Area of application

-It is a plaster used on polystyrene boards (XPS, EPS) in all buildings. Thanks to polypropylene fibers, it delivers high performance against possible tensions on wall surfaces under cracking risk.

Application features

-Using period: Max. 90 minutes
-Using period: max. 20-30 minutes
-Application thickness: 4 mm
-Applicable layer thickness: Max. 2 mm
-Time to wait between layers: Min. 3-4 hours
-Time to wait for top coat: 7 days

Surface preparation

- The surfaces on which NIVAKİM NIVAPLAST LF will be applied must be cleared of dust, dirt, oil, etc. that prevent adherence.
-Any irregularities on the application surfaces, if any, are repaired with ARKIM ARREPAIR THIN or ARKIM ARREPAIR THICK.
-It is necessary to make sure that the surface has been cured and robust.
- If they are porous, the application surfaces must be dampened.
-It is necessary to make sure that the application surface is robust, self-supporting and level.

Application conditions

-Ambient temperature should be between +5 ^{0}C and +35^{0}C
-Do not apply on frozen, melting surfaces, or surfaces likely to freeze within 24 hours.
-Do not apply on surfaces under direct sun or strong wind, or hot surfaces.

Warnings and Advices

-Strictly avoid adding foreign substances.
-After the application, all tools used must be washed with water before letting them dry.

Application tools

Hand mixer, steel trowel, fiber mesh

Application

-The container in which the mortar will be prepared must be clean and cleared of the remnants of the previous mixture.
-It is necessary pay attention to cleanliness of the water and materials used.
-The mortar must be prepared by using 6-6.5 liters of water and 25 kg of NIVAKİM NIVAPLAST LF.
-Firstly, water is poured into the container, and then the powder is added slowly. They are mixed until a homogeneous mixture is obtained.
-A low speed mixer must be used to obtain a homogeneous mixture.
-After a homogeneous mixture has been obtained, the mortar is left to mature for 5-10 minutes.
-Before starting the application, the mixture must be remixed for 1-2 minutes.
-After the mixture has become homogeneous, never add powder, water or another material.
-The mortar is applied smoothly on thermal insulating boards with steel trowel.
-The plaster fiber mesh is buried into the plaster mortar by pressing softly with steel trowel before the mortar dries.
-The joints of the plaster fiber mesh are overlapped for almost 10 cm.
-After the 1st coat of plaster has been dehydrated slightly, the 2nd coat of plaster is applied before it dries completely.
-After the 2nd coat of plaster has been applied, the surface is leveled with steel trowel.
-The prepared mortar must be consumed within 3 hours.
-The caked mortar in the container or the mortar the using period of which is over must be discharged.
-Wash your hands and application tools with plenty of water after the application.
-After it has cured, the surface can be coated with any coating material.

Consumption

Approximately 3-3.5 kg/m^2 (for 2 mm thickness)

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- **Performance Details**

  -Hollow Unit Volume Mass of Fresh Mortar: ≥ 1150kg/m^3

  -Hollow Unit Volume Mass of Hardened Cement-based Plaster: 1450±250 kg/m^3

  -Sleeve analysis: Amount remaining on the sleeve with 1 mm mesh ≤ 1.0%

  -Thermal Conductivity: Chart 2 T1 ≤ 0.54 W/mK (P=90%)

  -Bending Strength: ≥ 2 N/mm^2

  -Compressive Strength: ≥ 6 N/mm^2

  -Strength of Adhesion to Thermal Insulating Board: ≥ 0.08N/mm^2

  -Capillary Water Absorption: ≤ 0.5 kg/m^2.$min^{0.5}$

  -Water Vapor Permeability Coefficient: μ ≤15

  -Fire Class: A1

  -Temperature resistance: between +5^{0}C and 30^{0}C

  -Note: The application features have been determined in consequence of the tests conducted in laboratory environment (23 ± 2 ^{0}C and 50% ± 5 humidity, and no air current), and thus, they may vary by different ambient conditions. The performance details have been tested in the ambients specified in accordance with the relevant standard of the product, and different results may be observed in different ambients.

- **Reference Standards**

  -TS 13687

  -G

  -Ministry of Public Works Pos. No: 04.481

- **Packaging**

  -25 kg Kraft bag

  -Pallet: 64 pieces of 1600 kg in total

- **Physical form**

  -Gray, powder

- **Storage Conditions**

  -It is necessary to take care not to put more than 10 Kraft bags on top of each other in storage.

  -This product must be stored in dry indoor areas away from direct sunlight.

  -Bags must be stored so as not to contact with the ground in order them to be protected against humid.

  -Under such conditions, the product can be stored for 12 months as of the production date.

  -Inappropriate storage or exceeding the expiry date may deteriorate the properties of the product.