

## NIVAKİM NIVATHERM AD

### ■ Definition

Cement-based adhesive mortar for thermal insulating boards.

### ■ Area of application

-It is used to affix the polystyrene boards (XPS, EPS) facade sheathing for all buildings.

### ■ Application features

-Using period: max. 2 hours  
-Using period: max. 10-15 minutes  
-Time to pass to apply plaster on the affixed insulating board: 2 days

### ■ Surface preparation

- The surfaces on which NIVAKİM NIVATHERM AD 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 ARKİM ARREPAIR THIN or ARKİM 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 °C and +35°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.  
-Do not apply on weak surfaced with low strength.

### ■ Application tools

Hand mixer, steel trowel, notched trowel

### ■ 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 5.5-6 liters of water and 25 kg of NIVAKİM NIVATHERM AD.  
-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.  
-NIVAKİM NIVATHERM AD must be applied depending on flatness of the application surface. If the surface is flat, rear side of the board must be notched, and if the surface is not flat, the product must be applied by grouping the mortar on the back face of the board.  
-During the bonding process, it is necessary to check whether the boards are at the same level using gauge and bubble level.  
-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.  
-Depending on the ambient temperature and the surface properties, mechanical dowel must be applied at least 72 hours later.

### ■ Consumption

Approximately 3-5 kg/m<sup>2</sup>

### • Performance Details

-Hollow Unit Volume Mass of Fresh Mortar:  $\geq 1000\text{kg/m}^3$   
-Sleeve analysis: Amount remaining on the sleeve with 1 mm mesh  $\leq 1.0\%$

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-Bending Strength:  $\geq 2 \text{ N/mm}^2$

-Compressive Strength:  $\geq 6 \text{ N/mm}^2$

-Strength of Adhesion to Thermal Insulating Board:  
 $\geq 0.08 \text{ N/mm}^2$

-Water Absorption: For 30 minutes,  $\leq 5 \text{ g}$

-Water Absorption: For 240 minutes,  $\leq 10 \text{ g}$

-Strength of Adhesion to Lower Layer:  $\geq 0.5 \text{ N/mm}^2$

-Fire Class: A1

-Temperature resistance: between  $+5^\circ\text{C}$  and  $30^\circ\text{C}$

-Note: The application features have been determined in consequence of the tests conducted in laboratory environment ( $23 \pm 2^\circ\text{C}$  and  $50\% \pm 5$  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 13566

-G mark

-Ministry of Public Works Pos. No: 04.480

#### • 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.