



# Optimix Thermal Insulation Adhesive Mortar

## DESCRIPTION

**Optimix Thermal Insulation Adhesive Mortar** is a cement-based special adhesive mortar that is used in fixing thermal and sound insulation materials like polystyrene-based and rock wool plates onto mineral-based interior or exterior surfaces like concrete, plaster, brick and gas concrete panel.

## FEATURES

- Enables polystyrene-based and rock wool plates to strongly adhere to mineral surfaces.
- High adhesion performance thanks to optimum polymer rate.
- High water vapor permeability.

## TECHNICAL SPECIFICATIONS

Adhesion (On concrete surface):  $>0.50 \text{ N/mm}^2$

Adhesion (On polystyrene surface):  $>0.08 \text{ N/mm}^2$  EN 13494

Fire response class: A1

## COLOR

Gray

## SURFACE PREPARATION

Ensure that the surface is smooth, clean, dry, matte enough to allow adhesion, strong and self-supporting. Start the application of **Optimix Thermal Insulation Adhesive Mortar** a minimum of 4 weeks after the application of sub-plaster or rough-cast. Dampen the absorbent surfaces like gas concrete in particular during the application. Scrape the blistering and flaking sections of the previously painted surfaces, and fill the cracks on the surface with repair mortars. Notch the old painted surfaces to prepare them for holding the product.

## MORTAR PREPARATION

Add clean and cold water slowly into **Optimix Thermal Insulation Adhesive Mortar**, and mix for approximately 10 minutes with a low speed mixer until the mixture is free of pellets. Adjust the required water amount according to the weather conditions. Rest the mixture for 5 minutes and mix again. Readjust the consistency by adding water, if required. Consume the prepared mixture within 2-2.5 hours according to the weather conditions. Do not reuse the hardened material by reconstituting.

## APPLICATION

Apply **Optimix Thermal Insulation Adhesive Mortar** on prepared surfaces as 3 trowel sized points with equal distances to the center and as a 4-5 cm thick line along the edges of the insulation plate. Notch with a 8x8 mm toothed steel trowel on smooth surfaces.

If the plate is rock wool, the plate can be primed by applying adhesive on its edges and central points as a thin layer. After this step, standard adhesive application can be performed.

Avoid applying adhesive on sides of the plates. Adjust the thickness of the adhesive layer based on the smoothness of the application surface. Affix the plates upwards by applying slight pressure on the application surface starting from the subbasement profile at the bottom in a way that each one touches the other. Avoid overlapping the joints of insulation plates and place the plates irregularly. Ensure a leveled surface is created by pressing firmly with the help of a floating rule. Ensure there are no gaps between the plates, and close any gap with a piece cut from the same plate at the right thickness.

Ensure that the ambient and surface temperatures are between  $+5 \text{ }^\circ\text{C}$  and  $+30 \text{ }^\circ\text{C}$  during application and drying. Avoid application under conditions including direct sunlight, rain, and strong winds. Protect the product against freezing until set. Clean the used tools thoroughly with water after application.

## MIXING

Mix 25 kg **Optimix Thermal Insulation Adhesive Mortar** with 5-6 L of water depending on the weather conditions.

## DRYING TIME

Dowel the plates and start the top coat application at least 24 hours after they are fixed. Full-dryness:

2-3 days Since drying occurs physically with the evaporation of water, low temperatures and high relative



humidity lengthens this period.

#### **CONSUMPTION**

For polystyrene plate: 4.0-4.5 kg/m<sup>2</sup>

For rock wool plate: 5.5-6.5 kg/m<sup>2</sup>

Please note that specified consumption values may vary depending on the surface and application conditions. Perform a controlled sample run to estimate the precise consumption.

#### **PACKAGING**

25 kg craft bag

#### **STORAGE**

May be stored for up to 12 months in a dry form in its unopened package protected from humidity.

#### **HAZARD PHRASES**

H315 Causes skin irritation.

H318 Causes serious eye irritation.

H335 May cause irritation in respiratory tract.

#### **PRECAUTIONARY PHRASES**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P261 Avoid breathing dust/fume/gas/mist/vapor/spray.

P305 + P351 + P338 IN CASE OF EYE CONTACT: Carefully rinse with water for a couple of minutes. Remove contact lenses if worn and easy to do so. Continue rinsing.

P310 Immediately CALL NATIONAL POISON CONSULTING CENTER/Call a doctor.

P321 Specific treatment required (see label).

P405 Keep locked up.

P501 Dispose of contents/container in accordance with local, regional, national and international regulations.

#### **WARNING WORD Hazard**



GHS05

GHS07

Complies with the G communiqué. Complies with the TS 13566 product standard.