

### VERTICAL INSULATIONS

# MINERALIT IZOTYNK

Mineral, damp-proof mortar  
of high vapour permeability



### MAIN ADVANTAGES

- Efficient protection against moisture accumulation in walls
- For renovation of damp walls
- Creates a waterproof layer of high vapour permeability
- Protects from water penetration
- High adhesion to difficult and damp substrates
- Simple application
- To be applied outside and inside buildings
- Contains microfibres and polypropylene fibres

### AREAS OF APPLICATIONS

Mineral mortar for performing top coats which protect from moisture outside and inside buildings. It creates a waterproof and at the same time vapour permeable layer as well as assures efficient protection from water and moisture and which allows for drying humidified walls. It is intended for renovation of damp walls, renovation of buildings with walls and floors made of clay. It is applied for protecting walls in buildings threatened with floods, for waterproofing of basements and foundations and concrete fencing, insulation of walls which have a direct contact with the ground and ground water, insulation of waterproof wells, hydrotechnical constructions and water tanks, protection from moisturing of external and foundation walls, pedestals and walls in rooms exposed to moisture such as bathrooms, showers and swimming pools. It is also applied for rendering of elevations of light-texture buildings and repeated rendering of unpleasant-smelling walls, being wet, with mould and fungi. Creates a waterproof layer depending on the amount and thickness of the layer of light, medium or heavy type. To be applied on all typical mineral substrates (such as concrete, lime render, lime-cement render and cement render, sandstone and on raw surfaces made of bricks, blocks, concrete blocks and other ceramic or stone materials of that type).

### TECHNICAL SPECIFICATION

**Base binder:** hydraulic binders with modifiers added;

**Mixing ratio:** 4.5 l of water per 25 kg of dry mortar;

**Open time:** ca. 30 minutes;

**Temperature of application (air and substrate):** from +5°C to +25°C;

**Maximum number of layers:** 3;

**Each layer thickness:** 10 mm;

**Minimum time between the application of subsequent layers:** 8 hours;

**Reference coverage:** 12 kg/m<sup>2</sup>/10 mm;

**Mortar type according to PN-EN 998-1:** GP (general purpose)

**Compressive strength:** cat CS III;

**Adhesion to substrate:** ≥0.3 N/mm<sup>2</sup> - FP: A (after priming with

**BUDOGRUNT ZG / BUDOGRUNT WG** and /or wetting with water);

**Water absorption:** cat. W1;

**Durability after 'freezing - defreezing' cycles:** no losses in sample mass;

• reduction of bending strength 9%;

• reduction of compression strength 0%;

**Water vapour permeability coefficient:** μ ≤ 15

**Heat conductivity coefficient:** λ dry,10 = 0.93 W/m\*K (tabular value)

**Water impermeability:** per PN-EN 14891:2012 item A.7 soaking is not observed;

**Reaction to fire:** class A1;

**Packaging:** Disposable paper packaging containing 25 kg of product.

**Storage:** The product should be stored in its sealed packaging, in dry room, at a temperature from +5°C to +25°C. **Note:** The product must be kept out of the reach of children.

**Shelf life:** 18-month shelf life from date of production (this is printed on the side of the packaging).

### APPLICATION METHOD

**SUBSTRATE PREPARATION:** The substrate should be sound/stable, mineral, degreased, clean and free of bituminous and oily contamination. The mortar cannot be applied on substrates covered with polymer-based top coats. In case of surfaces

where algae, fungi are observed, before mortar application it is necessary to remove the above mechanically by means of a brush, trowel or high pressure washer and then disinfect with **ALGIZID**. Any layers poorly joined with the substrate (i.e. loose renders), should be removed at first. Old and/or dirty substrates should be washed off and degreased with water and **CLEANFORCE** cleaning agent. Absorbent substrates should be primed with **BUDOGRUNT ZG / BUDOGRUNT WG** or wetted with water.

**PRODUCT PREPARATION:** Pour the contents of the packaging gradually into a container with the measured amount of clean cool water (ca. 4.5 liters) continuously mixing it until homogeneous mixture is obtained. Mixing may be performed manually or mechanically. Mixing time is about 3-5 minutes until the consistency of cream is obtained. If the mixture is not used up at once, the mixing machine should be stopped and the mortar should be remixed before repeat use. The prepared mortar should be used up within 1 hour, after mixing within ca. 30 minutes. **Note:** Both too long and too intensive mixing may lead to excessive air entrainment of the mortar and, consequently, to a reduction in its strength parameters. It is not allowed to add other materials for the purposes of mortar preparation. Very dusty material while mixing.

**APPLICATION:** Prepared mortar should be applied on the substrate by means of manual technique with a trowel made of stainless steel in maximum 3 layers with the thickness of 10 mm each. If a few layers are applied, the middle layer should be spread sharp by means of a toothed trowel. While applying more than one layer, if water 'drops' are visible on the layer already created, the surface should be wiped before applying another layer. In the event of damp walls, the layer thickness should be 10 mm while on very damp ones it should be 30 mm. After applying the last layer and its initial setting, the render may be smoothed by means of a trowel made of a sponge or felt. **Note:** The product is alkaline, therefore, it is necessary to protect eyes and skin. Safety clothing (PPE) must be worn while carrying out any installation work. In case of contact with eyes, immediately rinse them thoroughly with plenty of water. If irritation develops, seek medical assistance.

**DRYING:** It is assumed that setting and hardening time for the top coat takes up 1 day for each 1 mm of the render thickness. After this period of time, it is possible to cover the top coat with renders/plasters and paints of high vapour permeability. **Note:** If after the end of plastering high temperature and low air humidity is present and/or the plastered surface is exposed to direct insolation or wind, the wall should be wetted with water for min. 7 days.

**USEFUL HINTS:** Drying time may be longer due to low temperatures and high relative humidity. In order to assure an applicable tightness, a single batch product should be used on a single application / architectural element. Mortar application and drying requires dry days at the air temperature from +5°C to +25°C. All tools to be cleaned with water after finishing work. Application during direct sun exposure, in strong winds or high air humidity is not recommended. To protect a still wet reinforcing coat against inclement weather conditions, scaffolding should be covered with some protective netting.