



## PURPOSE

The dry heat-insulating mix for shotcreting and concrete spraying ShotRock 15 Termo is intended for heat-insulating treatment and strengthening of side walls and roof of mine workings, cement, bricks, stone and other reinforced and non-reinforced surfaces by shotcreting and concrete spraying.

## COMPOSITION

Dry heat-insulating mix for shotcreting and concrete spraying ShotRock 15 Termo is a polymer-mineral fine-grain mix obtained through intensive mixing of graded sand, Portland cement, foamed heat-insulating material and a set of modifying additives.

## Key benefits

- High insulating effect
- High strength
- Possibility of application of the necessary layer in a single pass

## Technical description

### MIX APPLICATION

The amount of water necessary for dry heat-insulating mix preparation for shotcreting and concrete spraying ShotRock 15 Termo is determined by the ratio of 0.27-0.29 liters per 1 kg of dry construction mix and is controlled by reviewing the exterior of the previous layer with properties of surface being shotcreted taken into consideration. A layer should not leak, should not shine from excess water. The excess water promotes the layer dulling and future cracks formation.

The thickness of a layer is determined depending on project's works requirements.

The solution is applied continually until the completion or by sections. Before applying subsequent layers, it is necessary to wet the previous layer first, i.e. comply with the treatment method "wet on wet".

The temperature of the working surface and air must be at least +5°C and no more than 30°C. If the temperature is exceeded, ensure intensive wetting of the applied shotcrete (by spraying or steaming).

Works of preparation and application of shotcrete mixes must be performed in accordance with the requirements of the document titled "Technology for the preparation and application of ShotRock shotcrete mixes".

### DRY MIX CONSUMPTION

Dry mix consumption depends on the type of work performed. Preparation of 1 cubic meter of solution requires 1400-1500 kg of dry mix. The mix rebound is less than 5%.

### SAFETY RULES

The Portland cement contained in the mix forms an alkali when interacting with water. Avoid contacting the mortar with the skin and mucous membranes. If contact occurs - rinse with clean running water

### SPECIFICATIONS

Binding base	Portland cement
Aggregate	sand, foamed heat-insulating material
Fraction of aggregate	up to 5 mm
Maximum layer thickness in a single pass	over 150 mm
Water consumption for preparation	0.27-0.29 liters per 1 kg of mixture
Maximum surface temperature during operation	120°C
Compressive strength after storage for 28 days	at least 20 MPa
Thermal conductivity	not more than 0,35 W/(m*deg)

### PACKAGE TYPE

Comes in 3-layered paper valve bags with polyethylene liner.

### SHELF LIFE

Store the construction mix in a dry place with relative humidity of 60%, temperature from -50 to +50°C. Shelf life in the manufacturer's packaging is 12 months from the date of manufacture.