



## DESIGNATION

Dry mix for shotcreting and concrete spraying ShotRock 500 is created for shotcreting and concrete spraying in mining, as well as for shotcreting and concrete spraying of cement, bricks, stone and other reinforced and non-reinforced surfaces. In addition, it is also used for repair in building construction.

## SPECIFICATION

Dry mix for shotcreting and concrete spraying ShortRock 500 is a polymer-mineral fine-grained mixture obtained by intensive mixing of fractionated sand, portland cement and a complex of modifying additives.

## KEY BENEFITS

- Minimum rebound
- Ability to apply a thick layer in one pass
- Increase of labour efficiency

## Technical Description

### MIX APPLICATION

The amount of water, necessary for ShotRock 500 dry mix preparation, is determined by the ratio of -0.21 - 0.23L 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.

Grout application is conducted without interruption until the full completion or by division into bays. Before applying the subsequent layers, the previous layer needs to be moistened, following the way of application - "wet on wet".

Temperature of working surface and ambient air temperature should be not less than +5°C and not more than 30°C.

The preparation and application works of shotcrete mix must be run according to the requirements of "Preparation technology and application of shotcrete mixes ShotRock» document.

### DRY MIX CONSUMPTION

Consumption depends on the type of work performed. To prepare 1 m<sup>3</sup> of solution 1700-1800 kg dry mix is required. Mix's rebound is less than 5%.

### SAFETY

Portland cement, contained in a mixture, in contact with water forms alkali. Avoid contacting the mortar with the skin and mucous membranes. If contact occurs - rise with clean running water.

### TECHNICAL SPECIFICATION

Binding Base	portland cement
Aggregate	sand
Fraction of aggregate (at the customer's choice)	up to 0.7 mm; up to 3.2 mm
Maximum layer thickness per pass	more than 150 mm
Water consumption for mix preparation	0.21-0.23L of 1 kg mix
Temperature of working surface	from +5°C to +30°C
Compression resistance after 28 day storage	not less than 50 MPa

### PACKAGE TYPE

Comes in 3-layered paper valve bags with polyethylene liner weighing 25 kg (± 0.5 kg).

### STORAGE SHELF LIFE

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

The provided information is based on our experience and present knowledge. For more information please contact to a manufacturer's representative.