

Dry reinforced mix for the construction of isolating, including explosion-proof, curtain walls

SBR-wall

PURPOSE

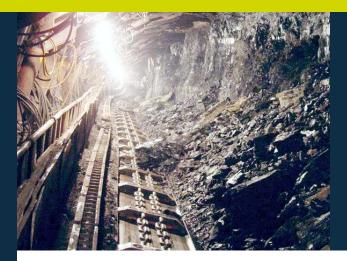
The dry reinforced mix SBRwall is intended for making curtain walls in order to insulate unused mine workings and mined-out spaces in coal mines.

The dry reinforced mix SBRwall is used for the construction of ventilation, water and pulp-proof, explosion-proof and dynamically stable isolating curtain walls. The dry reinforced mix SBRwall allows construction both cut and nocut curtain walls.

The dry reinforced mix SBRwall can be used for making jackets adjacent to the curtain wall, non-combustible lining, grouting of weakened mine workings, as well as isolating coal beds from contact with the mine atmosphere, prevention of leaks and air leakage through cracks in coal pillars.

COMPOSITION

The dry reinforced mix for the construction of isolating, including explosion-proof, curtain walls SBR-wall is a polymer-mineral fine-grain mix obtained through intensive mixing of graded sand, high-grade Portland cement and a set of modifying additives, ensuring durability, high rate of gaining early strength and waterproofing.



Key benefits

- High compressive and bending strength
- Durable
- Enables quick construction of a curtain wall

Technical description

REQUIREMENTS FOR WORKS DURING THE CONSTRUCTION OF CURTAIN WALLS

Construction of isolating curtain walls using the dry reinforced mix SBRwall must be carried out in accordance with the "Instruction for the isolation of unused mine workings and mined-out spaces in coal mines", approved by order of the Federal Service for Environmental, Technological, and Nuclear Oversight No.530 dated 28.10.2014 and the "Instruction for the construction and repair of isolating and explosion-proof curtain walls using the "Dry reinforced mix for the construction of isolating curtain walls SBR-wall".

METHOD OF MORTAR PREPARATION AND **APPLICATION**

Before applying the mortar, make the rear wall as formwork (plywood, fiberboard, chipboard). After that, the mortar is applied using the shotcreting equipment for dry or wet shotcreting.

When using equipment for dry shotcreting, type A dry reinforced mix SBR-wall is applied, for wet shotcreting - type B dry reinforced mix SBR-wall. The mortar is applied continuously until full

Working surface, ambient air and gauged water temperature must be at least +5°C and no more

Works of preparation and application of shotcrete mixes must be performed in accordance with the requirements of the document titled the Instruction for the construction and repair of isolating and explosion-proof curtain walls using the "Dry reinforced mix SBR-wall".

The rebound accumulated on the soil of the mine working is periodically mixed with a jet of shotcrete or eliminated

DRY MIX CONSUMPTION

Dry mix consumption depends on the type of work performed. Preparation of 1 cubic meter of solution requires 1700-1800 kg of dry mix. The mix rebound is less than 5%

SPECIFICATIONS

Binding base Aggregate

Fraction of aggregate

Fiber length

temperature

Water consumption for preparation Surface and ambient

Temperature of gauged Compressive strength:

at the age of 3 days at the age of 28 days Bending strength: at the age of 3 days at the age of 28 days

Adhesion with coal and rock at the age of 28 days

Waterproofing Air tightness

Minimum hose length

Maximum hose length

Portland cement

sand

up to 3.2 mm 6-12 mm

0.18-0.2 liters per 1 kg of

mixture

at least +5°C

from +5°C to +30°C

at least 25 MPa at least 40 MPa

at least 7.5 MPa

at least 10 MPa

at least 1.5 MPa

W10...W12 0,0422-0,0641 m³/c • not limited

according to the certification data of the shotcreting equipment

SAFETY RULES

The material does not contain toxic components. When performing work, use special personal protective equipment (overalls, gloves, protective mask and goggles).

PACKAGE TYPE

Comes in bags with polyethylene liner weighing 25 kg (±0.5 kg), put into big bags with polyethylene liner, 1000 kg each.

SHELF LIFE

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

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