

MINING / CONSTRUCTION

Pianocem B

HIGH OUTPUT FOAMING GROUT

DESCRIPTION

Pianocem B is a high yield, single component mineral and cement-based binder. After blending with the appropriate amount of water and foaming in a suitable machine, it sets to become a durable foam.

APPLICATION AND USE

- Building of ventilation and explosion resistant seals
- Building of isolation and backfill walls
- Filling voids (cavities) above mining excavation roof support
- Eliminating voids outside of mining excavation roof support
- Filling backfill voids
- Sealing of galleries



ADVANTAGES

- High yield (8-10 m³ of foam made from 1 tonne of powder)
- Resistance to aggressive mining environment
- Fast delivery rate
- Low transport cost
- Ease and safety of use
- Non-flammable
- Chloride free

TECHNICAL DATA

The data below are laboratory data. They may vary in practice due to surface properties of the substrate, humidity, pressure, and other factors.

PRODUCT CHARACTERISTICS

Product	Pianocem B	
water to solids ratio	1:1	2:1
Compressive strength @ 24 h ¹	1 MPa	0.01 MPa
Compressive strength @ 28 d ¹	4 MPa	0.1 MPa
Output (per 1 MT of powder)	2 m ³	10 m ³
Consumption	500 kg/m ³	100 kg/m ³
Reaction to fire	A1	

1. 20 °C

COMPONENT CHARACTERISTICS

Parameter	Pianocem B
Colour / form	grey powder
Amount of water per 25 kg bag	25 - 50 liters
Pot life at 20 °C ¹	3 - 10 minutes
Particle size	< 0.3 mm

1. 20 °C

APPLICATION METHOD

1. Equipment

Pianocem B is applied with standard machines commonly used for the supply of cement binders, e.g. pump units MONO WT 820, MONO WT-820/1.

2. Application

Pianocem B is a mineral foam, which is produced at the application site by mixing the powder material with water and air at the water/powder ratio ranging from 1:1 to 2:1.

3. Cleaning

Cleaning of the hoses and placer with water should be done after each application. It is recommended that the mixing hopper should be inspected every 5 MT of powder.

On completion of the application, the pump and all associated equipment should be thoroughly cleaned with water.

4. Curing

Exposed surface should be prevented from premature evaporation of water e.g. by covering with a plastic sheet if necessary.

SAFETY INSTRUCTIONS AND LIMITATIONS

It is recommended that gloves, eye protection and a dust mask are used when handling Pianocem B. For more details refer to our Material Safety Data Sheet.

Do not expose foamed concrete to frost. The material should not be applied when the substrate and/or air temperature is 10°C and falling. At 10°C

static temperature or at 10°C and rising, the application may proceed. At ambient temperatures above 35°C, the material should be stored in the shade and cool water should be used for mixing. Contaminated water may cause lower performance of the product.

PACKAGING AND TRANSPORTATION

25 kg valve sack, 40 bags per pallet. Other packing on request.

STORAGE AND SHELF LIFE

Shelf life 6 months when stored in dry and cool conditions.

DISPOSAL

Follow local regulations.

APPROVALS AND CERTIFICATES

1. Hygienic Certificate HK/B/1095/03/2015
2. Mining Certificate OBAC/0113/CB/17

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ADDITIONAL DOCUMENTATION

- Pianozem B MSDS

LIST OF REPRESENTATIVES

- AUSTRIA: Minova MAI GmbH
- CZECH REPUBLIC: Minova Bohemia s.r.o.
- FRANCE / BELGIUM: Sales office Minova France / Belgium
- GERMANY: Minova CarboTech GmbH
- ITALY: Minova CarboTech GmbH Italy branch
- KAZAKHSTAN: Minova Kazakhstan LLP
- POLAND: Minova Ekochem S.A.; Minova Arnall Sp. z o.o.; Minova Ksante Sp. z o.o.
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CUSTOMER SERVICE

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