

MINING / CONSTRUCTION

Ekopiana

HIGH OUTPUT FOAMING GROUT

DESCRIPTION

Ekopiana 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
- Fast delivery rate
- Low transport cost
- Ease and safety of use
- Non-flammable



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

Reference	Ekopiana	
Water to powder ratio	1:1	1.5 : 1
Output (per 1 MT of powder)	1.5 m ³	4.0 m ³
Consumption	667 kg/m ³	240 kg/m ³
Compressive strength @ 24 h ¹	2 MPa	0.4 MPa
Compressive strength @ 28 d ¹	10 MPa	2 MPa
Flammability	non-flammable (A1)	

1. 20 °C; 28 days

COMPONENT CHARACTERISTICS

Reference	Ekopiana
Colour / form	grey powder
Particle size	< 0.3 mm
Water per 25 kg bag	25 – 37.5 ltr
Pot life	3 – 5 min

APPLICATION METHOD

1. Equipment

Ekopiana is applied with standard machines commonly used for the supply of cement binders, eg pump units MONO WT 820, MONO WT-820/1.

2. Application

Ekopiana 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 1.5 : 1.

3. Cleaning

Cleaning of the hoses and plaser 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

It is recommended to keep material covered with an impermeable sheet at least for 7 days to prevent water evaporation.

SAFETY INSTRUCTIONS AND LIMITATIONS

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

Do not expose foamed concrete to frost.

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 (between 5 and 40°C).

DISPOSAL

Follow local regulations.

APPROVALS AND CERTIFICATES

1. Hygienic Certificate HK/B/0792/01/2014
2. Mining Certificate OBAC/0215/CB/17

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ME-NS/TE/03/04-01/ Ekopiana e01

ADDITIONAL DOCUMENTATION

- Ekopiana 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.
- RUSSIA: ZAO "Carbo-ZAKK"
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CUSTOMER SERVICE

For additional support options available at your area, contact our local offices.

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