

MINING / CONSTRUCTION

Tekblend

HIGH OUTPUT GROUT

DESCRIPTION

Tekblend is a rapid-setting hydraulic cement. It is a one-component material which after mixing at the site of application with the appropriate amount of water (water/powder ratio of 1:1 to 4:1) sets to become a durable concrete material.

The material, upon exiting the pump, is liquid and thus it is able to fill any roughness and gaps. Tekblend gels after about 3 minutes depending on the preparation method.

APPLICATION AND USE

- Building of monolithic packs for the protection of longwall galleries
- 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

- Excellent output (4,4 m³ of foam made from 1 t of powder)
- Rapid strength gain
- 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	Tekblend	
Water to powder ratio	1:1	4:1
Density¹	1.470 kg/m ³	1.150 kg/m ³
Compressive strength @ 24 h¹	6 MPa	0.5 MPa
Compressive strength @ 28 d¹	16 MPa	1 MPa
Flammability	non-flammable (A1)	

1. at 20 °C

APPLICATION DATA

Reference	Tekblend	
Water to powder ratio	1:1	4:1
Colour / form	grey powder	grey powder
Output	0.73 t/m ³	0.22 t/m ³
Water per 25 kg bag	25 ltr	100 ltr
Pot life ¹	2 – 5 min	20 – 40 min

1. at 20 °C

APPLICATION METHOD

1. Equipment

Tekblend 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

Tekblend is a mineral grout, 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 4:1.

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

It is recommended to keep material covered with an impermeable sheet for at least 3 days to prevent water evaporation.

In confined spaces material does not require curing.

SAFETY INSTRUCTIONS AND LIMITATIONS

When applying the product, use standard PPE meant for work with chemicals: safety gloves and goggles, protective clothing and a dust mask are used when using Tekblend. Immediately change the clothes if they become soaked with components. For detailed safety information please see the 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).

The warranty period for properly stored components is 3 months.

DISPOSAL

Follow local regulations.

APPROVALS AND CERTIFICATES

- Hygienic Certificate HK/B/0792/02/2014
- Mining Certificate OBAC/0150/CB/17

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ADDITIONAL DOCUMENTATION

- Tekblend 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

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