

MINING / CONSTRUCTION

Tekblend H

HIGH OUTPUT GROUT

DESCRIPTION

Tekblend H 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 range 1:1 to 2:1) 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 H gels after about 10 minutes depending on the preparation method.



APPLICATION AND USE

- Building of ventilation and explosion resistant seals
- Building of monolithic packs for the protection of longwall galleries
- 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
- Rapid strength gain
- Fast delivery rate
- Low transport cost
- Ease and safety of use – low pH
- 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

Product	Tekblend H
Compressive strength @ 8 h ¹	5 MPa
Compressive strength @ 24 h ¹	8 MPa
Density ¹	1380 kg/m ³ ± 5%
Flammability / Reaction to fire	non-flammable / A1

1. 20 °C

COMPONENT CHARACTERISTICS

Product	Tekblend H
Water to powder ratio	1.3 : 1
Colour / form	brownish - grey powder
Consumption	0.61 t/m ³
Water per 25 kg bag	32.5 ltr
Pot life / gel time ¹	5-10 min

1. 20 °C

APPLICATION METHOD

1. Preparation of the substrate

In case of active water leakage seal the borehole with injection (PUR resin Ekopur HW or silicate resin Krzemopur HS).

2. Mixing and application of mortar

Tekblend H is a mineral grout, which is produced at the application site by mixing the powder material with water at the water/powder ratio ranging from 1:1 to 2:1. Recommended w. c. r. for stoppings in 1,3:1.

Tekblend H is applied with standard commonly used placers for the supply of cement binders, e.g. MONO WT 820, MONO WT-820/1.

It is recommended that the mixing hopper should be inspected every 5 MT of powder

3. Curing

Exposed surface should be prevented from premature evaporation of water e.g. by covering with a plastic sheet in case of necessary. In confined spaces material does not require curing.

4. Cleaning of tools and other equipment

After use immediately clean all the mixing equipment with water. If necessary remove mechanically all the remnants of hardened grout.

SAFETY INSTRUCTIONS AND LIMITATIONS

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

The material should not be applied when the substrate and/or air temperature is 5°C and

falling. At 5°C static temperature or at 5°C and rising, the application may proceed however the strength development may be delayed.

Do not expose concrete to frost.

PACKAGING AND TRANSPORTATION

25 kg valve sack, 40 bags per pallet 1000 kg. 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

- National Technical Approval ITC 07 0540 V/AO.

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ME-NS/TE/03/126-01/ Tekblend H e01 (February 2013)

ADDITIONAL DOCUMENTATION

- Tekblend H 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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