

**MINING**

**Durafoam**

**HIGH OUTPUT FOAMING GROUT**

**DESCRIPTION**

Durafoam 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 (12 m<sup>3</sup> of foam made from 1 tonne of powder)
- 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

Parameter	Durafoam	
	water to solids ratio	1 : 1
Compressive strength @ 24 h <sup>1</sup>	0.75 MPa	0.03 MPa
Compressive strength @ 28 d <sup>1</sup>	3.0 MPa	0.15 MPa
Output (per 1 MT of powder)	4 m <sup>3</sup>	12 m <sup>3</sup>
Consumption	250 kg/m <sup>3</sup>	84 kg/m <sup>3</sup>
Reaction to fire	A1	

1. 20 °C

## COMPONENT CHARACTERISTICS

Parameter	Details
Colour / form	grey powder
Amount of water per 25 kg bag	25 - 63 liters
Pot life at 20 °C <sup>1</sup>	3 - 10 minutes
Particle size	< 0.3 mm

1. 20 °C

## APPLICATION METHOD

### 1. Equipment

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

### 2. Application

Durafoam 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 2.5 : 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 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 handle Durafoam. 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 5°C and falling. At 5°C static temperature or at 5°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.

## 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. Mining certificate OBAC/0214/CB/17
2. Hygienic certificate HK/B/0792/01/2014

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## ADDITIONAL DOCUMENTATION

- Durafoam 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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