

**CONSTRUCTION / ENERGY**

**AG-FIX**

**SPECIAL CEMENT ADHESIVE FOR BASALT TILES**

**DESCRIPTION**

AG-FIX is a single component dry pre-bagged grout based on high quality mineral fillers and selected Portland cement. When mixing with the appropriate amount of water, it creates a stable semi- fluid or plastic grout, suitable for long-distance pumping or for manual use.

**APPLICATION AND USE**

- Basalt tile, shapes and pipes installation to different substrates e.g. concrete, reinforced concrete, steel
- Thanks to its versatility it can be used in various specialised applications.

**ADVANTAGES**

- Adjustable consistency to customer needs
- Stability – no sagging nor bleeding
- Optimal pot life
- Fast strength development
- Dimensions stability when hardened
- Chlorides and alkaline additives free – better protection for steel



## 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	AG-FIX
Compressive strength after 24 hours	≥ 30 MPa
Flexural strength after 28 days	≥ 9 MPa
Compressive strength after 28 days	≥ 75 MPa
Chloride content	≤ 0.05 %
Density of fresh grout	≥ 2150 kg/m <sup>3</sup>
Flammability	non-flammable (A1)

## COMPONENT CHARACTERISTICS

Parameter	AG-FIX
Colour / form	grey powder
Mixing ratio	3.8 – 4.375 ltr of water / 25 kg
Consumption <sup>1</sup>	1.83 – 1.90 kg/ltr
Pot life	~ 60 min. w 20 °C
Application temperature	min.+1 °C; max +30 °C

1. Mass of dry-mix necessary to prepare 1 liter of ready grout or per 1 mm of layer per 1 m<sup>2</sup>

## APPLICATION METHOD

AG-FIX can be applied manually or mechanically.

### 1. Surface Preparation

Before application, remove loose fragments of rock, concrete, dust, greasy stains, formwork release agent etc. In order to improve adhesion to the substrate surface it is recommended to dump it with water prior to application. For the best results, wet the concrete surface 24 hours before the work. Seal active water with plugging grout Minostop. In case of major water leaks from the ground, eliminate them by injecting organic resins (eg Ekopur HW, Krzemopur S). As the auxiliary method in case of large leaks, a water intake with drainage pipe may be used

### 2. Small quantity application

If mixing small quantities by hand, add one bag 25 kg of the AG-FIX powder to 4,375 litres of drinking quality water. This should be mixed vigorously for a minimum of 5 minutes. Small quantities can be mixed in a suitably sized drum using a spiral paddle with a slow speed (400/500 rpm) heavy-duty drill. Ready to use grout is a smooth and of equal consistency. Do not exceed prescribed amount of water. Re-mix the grout if sets.

### 3. Large quantity application

Greater quantities should be mixed using a common forced-action placer used for grouts or plasters. In case of use continuous mixing placers (e.g. MAI 4YOU, BaproOne; IBO-REP etc.) follow equipment manufacturer's guidelines. Set the water to flow, which gives a grout density within the specification. For the best results if high output systems are used, apply auxiliary mixing (e.g. Rotoquirl in PFT system). If break in placing work prolongs over 15 minutes, consider cleaning the hose. It is particularly critical at high ambient temperature. It is highly recommended to equip the placer with coupling to connect a hose with water supply to clean it in emergency.

In periodic systems, measure 4,375 litres of drinking quality water and pour  $\frac{3}{4}$  into the mixer (per one 25 kg bag) and, with the machine in operation, add one full 25 kg bag of AG-FIX and mix for one minute before adding the rest of the water. Then mix for a minimum of 3 minutes. Do not subsequently re-temper with extra water. Note: In all cases, AG-FIX powder must be added to water.

Free-fall mixers are not allowed.

#### 4. Curing

AG-FIX does not require curing when used in confined spaces, however under strong drying conditions should be cured immediately after finishing in accordance with good concrete practice. In very fast drying conditions, supplementary curing with PE or PP sheeting taped down at the edges should be used. In cold conditions, the material must be protected from freezing.

#### 5. Cleaning

Clean tools with water. When hardened clean mechanically.

### **SAFETY INSTRUCTIONS AND LIMITATIONS**

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

When the temperature is lower than 10 °C it is recommended to use warm water (about 20 °C). The material should not be applied when the substrate and/or air temperature is 1°C and falling. At ambient temperatures above 35°C, the material should be stored in the shade and cool water (below 20 °C) 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 (between 5 and 40°C).

### **DISPOSAL**

Follow local regulations.

### **APPROVALS AND CERTIFICATES**

1. Hygienic certificate HK/B/0903/01/2016

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### **ADDITIONAL DOCUMENTATION**

- AG-FIX 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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