

CONSTRUCTION

Minobond APS

HIGHLY FLUID RAPID SETTING GROUT

DESCRIPTION

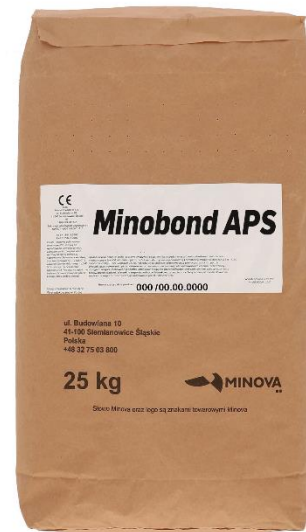
Minobond APS is a single component mineral and cement-based dry pre-bagged grout. After blending with the appropriate amount of water creates a highly fluid grout of rapid setting and further rapid strength gain. It is designed especially for APS sewer manhole repair.

APPLICATION AND USE

- Filling voids (cavities) between APS panel and the substrate
- Filling backfill voids

ADVANTAGES

- Self-compacting nature eliminates honeycombing and displaces air without vibration
- No bleeding
- Ease and safety of use
- Pre-bagged to overcome site-batched variations – only the site addition of clean water is required
- Rapid setting and strength gain
- 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	Minobond APS
Flowability	≥ 300 mm
Consistence EN 12350-5	F6 / fluid
Density of fresh grout	2100 ± 50 kg/m ³
Compressive strength @ 24 h ¹	≥ 2 MPa
Compressive strength @ 28 d ¹	≥ 25 MPa
Flammability	non-flammable (A1)

1. 20 °C

COMPONENT CHARACTERISTICS

Reference	Minobond APS
Colour / form	grey powder
Consumption	1.8 – 1.85 kg/ltr
Water per 25 kg bag	3.8 – 4.5 ltr
Pot life	15 - 20 min

APPLICATION METHOD

1. Surface Preparation

Before application of Minobond APS, 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 performing the repair.

2. Equipment

Small quantities can be mixed in a suitably sized drum using a spiral paddle with a slow speed (400/500 rpm) heavy-duty drill.

Greater quantities should be mixed using a forced-action mixer.

3. Execution

If mixing small quantities by hand, add one bag 25 kg of the Minobond APS powder to 3,8-4,5 litres of drinking quality water. This should be mixed vigorously for a minimum of 3 minutes.

For larger volumes, measure 4,5 litres of drinking quality water and pour ¾ into the mixer (per one 25 kg bag) and, with the machine in operation, add one full 25 kg bag of Minobonf APS 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 Minobind APS powder must be added to water.

In case of use continuous mixing placers (e.g. MAI 4YOU, PFT G-4) follow equipment manufacturer’s guidelines.

Free-fall mixers must not be used.

4. Cleaning

Clean tools with water. When hardened clean mechanically.

5. Curing

Minobond APS does not requires curing when used in APS method, however under strong drying conditions Minobond APS should be cured immediately after finishing in accordance with good concrete practice. In very fast drying conditions, supplementary curing with polythene sheeting taped down at the edges should be used.

In cold conditions, the finished repair must be protected from freezing.

SAFETY INSTRUCTIONS AND LIMITATIONS

It is recommended that gloves, eye protection and a dust mask are used when using Minobond APS. 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.

At ambient temperatures above 35°C, the material should be stored in the shade and cool water 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

- Hygienic Certificate HK/B/0245/01/2016

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ADDITIONAL DOCUMENTATION

- Minobond APS MSDS

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