

CONSTRUCTION

Minotop 25UW

HIGHLY FLUID BACKFILLING GROUT FOR USE UNDER WATER

DESCRIPTION

Minotop 25UW is a single component dry pre-bagged grout based on mineral fillers up to 1 mm grain size and Portland cement. Thanks to selected raw materials and rheology additives, after mixing with the appropriate amount of water creates a stable highly fluid grout with reduced tendency to wash-out when placed under water. The product is ready to use when mixed with appropriate amount of water.

APPLICATION AND USE

- Filling voids (cavities) between GRP tube and the substrate
- Backfilling voids
- Sewer repair

ADVANTAGES

- Extremely high flowability
- Shrinkage compensated
- Reduced wash-out in under water application
- No segregation, no bleeding
- Pre-bagged to overcome site-batched variations – only the site addition of clean water is required
- Chlorides and alkaline additives free
- 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

Parameter	Minotop 25UW
Concrete class (EN 206-1)	C25/30
Consistence (EN 12350-5)	F6 / fluid
Distance between injection points	> 150 m
Adhesion to concrete	≥ 1.5 MPa
Chloride content	≤ 0.05 %
Density of fresh grout	1750 kg/m ³ ± 5%
Modulus of elasticity	25.3 GPa
Flammability	non-flammable (A1)

COMPONENT CHARACTERISTICS

Parameter	Minotop 25UW
Colour / form	grey powder
Mixing ratio	7.3 – 7.8 ltr of water per 25 kg
Consumption	1.31 – 1.43 t/m ³
Pot life ¹	60 min. w 20 °C 30 min. w 30 °C
Application temperature	min.+1 °C; max +30 °C

1. 20 °C; 28 days

APPLICATION METHOD

1. Small quantity application

If mixing small quantities by hand, add one bag 25 kg of the Minotop 25 powder to 7,3 – 7,8 litres of drinking quality water. This should be mixed vigorously for a minimum of 3 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, liquid grout of equal consistency. Re-mix the grout if gelled.

2. Large quantity application

Greater quantities should be mixed using a common forced-action placers used for grouts or self-levelling screeds.

In periodic systems, measure 7,5 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 Minotop 25 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. Be aware of low viscosity of the grout – when discharged to bottom chopper splashing with grout may happen. Note: in all cases Minotop 25 powder must be added to water.

In case of use continuous mixing placers (e.g. MAI 4YOU, BaproOne; IBO-REP etc.) follow equipment manufacturer's guidelines. For the best results if high output systems are used, apply auxiliary mixing (e.g. Rotoquirl in PFT system).

Free-fall mixers are not allowed.

3. Curing

Minotop 25UW does not requires 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.

4. 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 Minotop 25UW. 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.

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ADDITIONAL DOCUMENTATION

- Minotop 25UW MSDS

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- AUSTRIA: Minova MAI GmbH
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- FRANCE / BELGIUM: Sales office Minova France / Belgium
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