

Technical Data Sheet

ultra

Reprofiling and coating mortar

SC-TD-AwaTec ultra E-Rev 02

Issue: 07/2018

Product description

SC-AwaTec® „ultra“ is a cement-based, polymer-modified one-component coating mortar for sewer construction and sewer rehabilitation.

Areas of application

- Wastewater and purification plants
- Coating of concrete and stonework manholes as well as sewage drains
- Potable water protection zones
- Filling of joints and repair of damaged areas
- Usable up to pH 3,0 in municipal and industrial sewage

Properties

- Resistant to frost and de-icing salt
- Highly sulphate-resistant
- Short-term resistance to water impact
- Very high adhesive strength
- Very high bonding strength
- Impermeable to water, thus sealing against pressing groundwater
- XA 3 to DIN 206-1 and class R3 to EN 1504-3
- Long-term sewage temperature up to 90 °C

Processing guidelines

Surface preparation

- The surface has to be free from loose particles, grease, oil, cement grout or any other adhesion-reducing substances.
- The surface may be concrete, brickwork or unglazed stoneware.
- Water jet or solid jet is required to prepare a suitable surface.
- The surface has to be pale damp, but essentially without a flowing water film.

Mixing

- Water requirement: 10 % to 14 % per 25 kg-bag, corresponding to 2,5 to 3,5 litres of drinking water per 25 kg-bag.
- Prepare water, then steadily add mortar, while mixer running slowly.
- Mixing time: 3 to 5 minutes, until a uniform mixture is achieved.

Processing time (open time)

- 15 to 30 minutes (at 20 °C)
- Higher temperatures will shorten the open time, lower temperatures will prolong the open time.

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Method of Application

- SC-AwaTec® „ultra“ can be applied manually as well as in a wet spraying process or centrifugal process.
- For manual application of SC-AwaTec® „ultra“, a bond coating of high plastic consistency has to be prepared. This is then worked into the pre-wetted surface by means of a wide paint brush or broom.

Post-treatment

- The surface coated with SC-AwaTec® „ultra“ has to be protected against premature drying out by draught and heat. Post-treatment should last at least 7 days and correspond to DWA-M 143-17.
- Suitable post-treatment measures are fabric covering, plastic film, keeping the surface moist, or suitable curing agents.

Safety instructions

- Please observe the safety instructions and recommendations to be taken from the SC-AwaTec® Material Safety Data Sheet.

Technical Properties

| | | |
|-----------------------------|--|----------------------|
| Compressive strength: | after 7 days | 50 N/mm ² |
| | after 28 days | 65 N/mm ² |
| Depth of water penetration: | watertight to DIN EN 12390-8 | |
| Consumption: | approx. 20 kg/m ³ at 10 mm layer thickness | |
| Layer thickness: | 6 to 20 mm per working cycle, max. layer thickness 100 mm | |
| Granulation: | < 2 mm | |

Further characteristics

| | |
|-------------------------|------------------------------------|
| Colour shade: | grey |
| Unit size: | 25 kg-bag |
| Processing temperature: | +5 °C to +30 °C |
| Storage: | dry |
| Shelf life: | 12 months from date of manufacture |

Remarks:

The indications contained in this technical product data sheet are product descriptions. They represent general information and are based on trials, tests and practical experience. The values are average values, determined at standardized climate to DIN EN 123270 (23°C/50% r.F.). Deviations cannot be ruled out. When applying our mortars, the individual processing guidelines, relevant directives, recommendations and standards have to be observed. In any case, generally recognized standards of technology have to be respected and adhered to. If necessary, tests should be carried out prior to specific applications. We reserve the right to amend technical details at any time. With this issue, all previous technical data sheets become invalid.

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