



MC-Ballastbond 80

Special resin for ballast bonding and soil strengthening

Product Properties

- Low-viscosity organo-mineral-based resin
- Short reaction time
- Solid bonding
- No foaming reaction in contact with water
- Low flammability (building material classification B1 according to DIN 4102)
- Fulfills UBA- guideline for repair systems in contact with drinking water

Areas of Application

- Sealing and consolidation of fissures and cavities in granular soil, mountainous rocks and similar areas
- Grouting of ground slabs and build-in parts to stabilize and strengthen

Application Notes

Preparatory Measures

Before installation the injection commences must be inspected according to the latest technical regulations. The ballast to be bond must be dry, clean and free from any contaminants. Water must be breamed or flamed off. Soil injection be carried out into any soil, even damp or moist.

Mixing

MC-Ballastbond 80 is made up of two components, component A (base) and component B (hardener).

Before application component B must be mix up so that a homogeneous coloured component is allocated.

The components are mixed in the mixer head of the 2-component injection pump using a static mixer. Necessary mixing quality is achieved by using two helix-mixers (mixing length: 30 cm).

Installation

The installation should be done with a 2-compo-

nent injection pump which is capable of creating a sufficient pressure and flow rate. Material is spread onto the ballast in a special spraying angle. Size of nozzle must be optimized under site conditions (Delvano H 1/4V-8010 veejet or -8030 or -8040).

At temperature below 6 °C the processing of MC-Ballastbond 80 must discontinued.

The contents of opened containers must be processed within 24 hours.

Equipment Cleaning

In the case of extended work interruptions, the pump must be rinsed thoroughly. Use water to clean the component A part of the pump and the MC-cleaning agent U to clean the component B part. The rinsing agents must not be mixed. It is very important to clean the parts of the pump separately, as there will be a reaction of the components triggered by the rinsing agent.



Technical Data for MC-Ballastbond 80

| Characteristic | Unit | Value* | Comments |
|------------------------|--------------------|--------------------------|---|
| Mixing ratio | p.b.v. p.b.m. | 1 : 1 100 : 77.5 | component A : component B component A : component B |
| Density | kg/dm ³ | approx. 1.30 | DIN 53 479 |
| Viscosity | mPa·s | approx. 380 | DIN 53 018 |
| Compressive strength | MPa | approx. 30 ± 5 | DIN EN 196 T1 |
| Flexural strength | MPa | 12 | DIN EN 196 T1 |
| Shore-D-hardness | - | approx. 70 | ISO 868 |
| Application time | minutes | approx. 1 | |
| Gelation time | minutes | approx. 3 | |
| Application conditions | °C | + 6 - + 45 + 6 - + 30 | temperature of structural part and air temperature of material |
| | % | ≤ 85 | relative humidity |
| | K | 3 | abave dew point |

* All technical values relate to 20 °C and 50 % relative humidity.

Product characteristics for MC-Ballastbond 80

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|--------------------|---|
| Equipment cleaning | During the application time all equipment may be rinsed, making sure to clean component parts separately. Component A with water, component B with cleaning agent U. Partially cured or completely cured material can only be removed mechanically. |
| Colour | Component A: milky Component B: black Mixture: anthracite |
| Delivery | Canister containing 20 l of component A Canister containing 20 l of component B |
| Storage | Providing temperatures between + 10 °C and + 25 °C and dry conditions the tightly sealed original containers may be stored for up to one year. The same requirements are valid for transport! |
| Container disposal | Containers must be emptied completely. Please refer to our information leaflet regarding the packaging ordinance "The MC-disposal concept for completely emptied transport and retail packaging". We would be happy to provide you with a copy. |

Safety Advice

Please take notice of the safety information and advice given on the packaging labels and safety information sheets. GISCODE: PU40

Note: The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are only binding if given in written form. The accepted engineering rules must be observed at all times.

Edition 08/16. Some technical changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.