Further information can be found in the safety data sheet (SDS).

DESOI MICROFINE CEMENT VP1

Microfine cement suspension for filling cavities and force-fitting closure of cracks

Technical data sheet

no.: 56397 | 56401

Product description

DESOI microfine cement VP1 is a mineral, 1-component microfine cement suspension with a maximum grain size of < 9.5 µm

Application

The microfine cement suspension DESOI microfine cement VP1 can be used to fill cavities and defects in concrete and masonry, as well as to force-fit dry and moist cracks.

Product features / advantages

- Easy and safe 1-component processing
- Grain size d_{95} < 0.1 mm
- High penetration depth into fine cracks (> 0.2 mm) in concrete

Product information

Chemical basis	Modified ultrafine cement
Delivery form	5 kg bucket or 20 kg sack of cement powder
Shelf life	12 months from production date
Storage conditions	Store in the unopened, undamaged original container in a dry place at temperatures between +5 °C and +25 °C.
Density	fresh mortar bulk density: ~1.82 kg / l

Technical specifications

Compressive strength	after 2 days > 40 N/mm² after 7 days > 65 N/mm² after 28 days > 70 N/mm²
Air temperature	minimum +5 °C Maximum +30 °C
Substrate temperature	minimum +5 °C Maximum +30 °C
Substrate humidity	matt-damp concrete. Pre-wet dry concrete with water.
Processing time	~ 60 minutes at + 20 °C The data given are laboratory values and may vary depending on construction site conditions.

Measurement values

All technical data, dimensions and information in this data sheet are based on laboratory tests. Actual measured data may differ in practice due to circumstances beyond our control.

Ecology, health and safety at work

When handling unreacted materials, direct skin contact must be avoided! Appropriate protective equipment must be used.
For the handling of our products, the essential physical, safety, toxicological and ecological data can be found in the substance-specific safety data sheets. The relevant regulations, such as the Hazardous Substances Ordinance, must be observed.

Processing instructions

MIXING

DESOI microfine cement VP1 should be mixed thoroughly to a homogeneous and lump-free consistency with 2.45 (5 kg) or 9.8 (20 kg) litres of clean water using a dissolver agitator for at least 5 minutes after complete addition of DESOI microfine cement VP1. The water is introduced into the mixing container and the microfine cement is slowly sprinkled in. The dissolver agitator must rotate at a minimum of 1,500 rpm to achieve a neat mixing result. The run-out time from the Marsh funnel is approx. 53 sec.
For fine cracks, the suspension should also be sieved through a fine stainless steel kitchen sieve. A bucket/sack of DESOI microfine cement VP1 + 2.45 (5 kg) or 9.8 (20 kg) litres of water yield 4.2 (5 kg) or 16.8 (20 kg) litres of finished cement suspension.

PROCESSING METHOD/EQUIPMENT

DESOI microfine cement VP1 can be processed with commercially available high-speed mixing systems designed for microfine cement injection, e.g. DESOI PowerMix M-1 and injection pumps, e.g.,

- DESOI M-Power 30Z
- DESOI M-Power 60Z
- DESOI AirPower 1
- and DESOI PowerInject SP20

can be processed. The injection pressure should not exceed 2–8 bar.

CLEANING OF EQUIPMENT

Clean equipment with water immediately after use. Hardened material can only be removed mechanically.

Country-specific data

Local regulations must always be observed.

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