

BRAWO® Silicate Fast

Organic-mineral resin for rehabilitation with short liners

Product properties

- Low-viscosity, two-component organic-mineral resin
- Short form work times even at low temperatures
- Good adhesion to concrete, brick and ceramics
- Can be applied to dry and moist mineral substrates

Application areas

- Impregnation and fulling of E-CR glass fibre for rehabilitation of patch liners
- No-dig repair of defective sewer pipes and ducts
- Repair methods for underground sewer pipes and ducts
- REACH-assessed exposure scenarios: periodical inhalation, application, long-term water-contact

Processing instructions

Substrate preparation

The substrate must be clean and free of loose parts, dust, oil, fats and any other substances that could act as separators.

It can be dry or damp. The substrate must be stable and evidence the generally required tear strength of min. 1.5 N/mm².

Mixing

The main and hardener components must be mixed thoroughly and homogeneously using a slow-rotating mechanical stirrer. Alternatively, a suitable resin mixing and dosing system can be used.

The specified mixing ratio must be complied with.

The container must be completely emptied for ecological reasons.

Processing

BRAWO® resins are applied or processed in a soaking or impregnation process.

The textile/E-CR glass fibre to be soaked must be dry otherwise the textile fibres will not be properly wetted. This can lead to loss of strength or curing problems of the resin.

Ensure, before the start of the installation process, that no water can flow into the area being renovated during the installation process.

Safety

From 24 August 2023, appropriate training must be provided before industrial or commercial use.

For more information, please visit:

<https://safeusediisocyanates.eu/en/>

Wear suitable protective clothing, gloves and eye/face protection during processing. Comply with safety advice / hazard statements listed on labels and safety data sheets.

Technical properties BRAWO® Silicate Fast

(Unless otherwise specified, all values are based on +23°C and 50% rel. humidity)

Parameter	Unit	Value	Remarks
Basis / number of components		Organic-mineral resin / two	
Mixing ratio	Parts per volume	1 : 2	Compound A : Compound B
Density (mixture)	kg / l	1.24	
Pot life in 200g formulation	Minutes	26	at +10 °C material and ambient temperature
Pot life in 200g formulation	Minutes	12	at +20 °C material and ambient temperature
Curing time of soaked textile/E-CR glass fibre (3 mm) until reduction in installation pressure	Minutes	approx. 120 approx. 35	at +10 °C at +20 °C material and ambient temperature
Fully chemical resistant following warm curing after	Days	approx. 7	
Processing conditions	°C	+5 to +20 +10 to +15	Air and substrate temperature material temperature

Product characteristics BRAWO® Silicate Fast

Colour	Green
Cleaning agent	MC-cleaning agent U
Storage	Storage life is minimum 12 months in tightly sealed original containers at temperatures between +5°C and +30°C. Storage must be frost-free. Warm/cool the components before processing to between +13°C and +15°C. We recommend storage in a climate-controlled cabinet to achieve the correct temperature.
Container disposal	Completely emptied containers can be recycled. Mix and cure component residues in the specified mixing ratio. Cured resin and liner can be disposed of as residual waste (waste key AVV200301, mixed municipal waste). Individual components must be disposed of appropriately as hazardous waste.

Safety instructions:

High temperatures reduce and low temperatures increase all given time intervals. In general, a temperature change of 10°C results in the specified interval decreasing or increasing by half respectively. Both components are subject to labelling according to the hazardous substances' regulation. The information and advice on the delivered containers must be complied with during processing. Please note the hazard statements and safety advice on the labels and the safety data sheets.

Note: The data provided in this data sheet are made to the best of our knowledge, based on our experience, but are not binding. They must be adjusted according to the applicable building objects, utilisation purposes and the specific local conditions. Our data are based on the generally accepted technical rules, which must also be complied with during implementation. Given these preconditions, we are liable for the accuracy of the information given as set out in our sales and delivery terms and conditions. Any recommendations made by our employees deviating from the data in our data sheets are only binding for us if they are confirmed in writing. The generally accepted technical rules must be complied with in all cases. As at: 06/2023