BRAWO SYSTEMS

BRAWO® HT

Two-component epoxy resin for impregnating hose liners used to renovate waste water pipes

Product properties

- Low-viscosity epoxy resin for repairing constantly humid components in contact with waste water
- High thermal dimensional stability (thermal dimensional stability temperature (HDT) > 93°C as per DIN 75-2)
- High strength
- Good resistance against acids and alkalis
- Can also be used on humid substrates (waste water pipes)
- Good adhesion on concrete, metal, bricks and ceramics
- Physiologically harmless (after complete curing)
- Fire behaviour minimum flame resistance B2 (according to DIN 4102)

Application areas

- Soaking or impregnating textiles for renovation of waste water pipes
- Repairing defective pipes and channels
- Renovation of pipes with high thermal stress
- Renovation of pipes within buildings

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 to be soaked must be dry otherwise the textile fibres will not be properly wetted. This can lead to loss of strength.

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

Safety

The usual rules of behaviour when handling reactive resins must be complied with. Wear suitable protective clothing, gloves and eye/face protection during processing. Comply with safety advice / hazard statements listed on labels and safety data sheets.

NoDig Norway

BRAWO SYSTEMS GmbH
Blechhammerweg 13-17 · 67659 Kaiserslautern · Deutschland
Telephone +49 631 20561-100 | email info@brawoliner.com
www.brawosystems.com

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Technical properties BRAWO® HT

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

Parameter	Unit	Value	Remarks
Basis / number of components		Epoxy resin / two	
Mixing ratio	Parts by mass	5: 1	Component A: Component B
Density (mixture)	kg / l	1.32	
Pot life in 100g formulation	Minutes	45 (±6)	Formulation in PE cup Material temperature rise from +22°C to +40°C Material temperature: +18 °C Air temperature: +22°C
Container processing time 12 kg	Minutes	Approx. 35	At +15°C material/air temperature until temperature rise to +40°C
Processing time for soaked textile laid out lengthwise	Minutes	Approx. 70	At +20°C air temperature
Curing time of soaked textile until reduction in installation pressure	Hours Minutes Minutes	Approx. 18 Approx. 140 Approx. 80	At +15°C At +50°C at +70°C (HDT > 93°C)
Consumption	l * mm / m²	generally 0.95	Dependent on density and thickness of textile or felt used
Fully chemical resistant following warm curing after	Days	Approx. 7	
Processing conditions	°C	+5 to +30	Air and substrate temperature

Product characteristics BRAWO® HT

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 AVV2000301, mixed municipal waste). Individual components must be disposed of appropriately as hazardous waste.

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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: 01/2021

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