

## BRAWO® TC

**Thermoreactive two-component epoxy resin for impregnating hose liners used to renovate waste water pipes**

### Product properties

- Epoxy resin with reduces viscosity for repairing constantly humid components in contact with waste water
- Hot curing epoxy resin
- Very long processing time
- Shorter curing times with higher curing temperatures achievable
- 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)

### Application areas

- Soaking or impregnating textiles for renovation of waste water pipes
- Repairing defective pipes and channels

### Processing instructions

<p><b>Substrate preparation</b></p> <p>The substrate must be clean and free of loose parts, dust, oil, fats and any other substances that could act as separators.</p> <p>It can be dry or damp. The substrate must be stable and evidence the generally required tear strength of min. 1.5 N/mm<sup>2</sup>.</p> <p><b>Mixing</b></p> <p>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.</p> <p>The specified mixing ratio must be complied with.</p> <p>The container must be completely emptied for ecological reasons.</p>	<p><b>Processing</b></p> <p>BRAWO® resins are applied or processed in a soaking or impregnation process.</p> <p>The textile to be soaked must be dry otherwise the textile fibres will not be properly wetted. This can lead to loss of strength.</p> <p>Ensure, before the start of the installation process, that no water can flow into the area being renovated during the installation process.</p> <p>Curing has to take place under hot conditions of minimum +60°C (max. +80°C). The temperatur resistivity of the substrate has to be considered.</p> <p><b>Safety</b></p> <p>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.</p>
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**BRAWOLINER® - Karl Otto Braun GmbH & Co. KG**

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## Technical properties BRAWO® TC

(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	100 : 42	component A: component B
Density (mixture)	kg / l	approx. 1.18	
Container processing time 30 kg Container processing time 10 kg	minutes	approx. 120 approx. 150	at +15°C material- and air temperatur
Processing time for soaked textile laid out lengthwise	hours	approx. 8	at +15°C material- and air temperatur
Curing time of soaked textile until reduction in installation pressure	hours	approx. 9 approx. 5 approx. 4	at +60°C curing temperature at +70°C curing temperature at +80°C curing temperature
Fully chemical resistant following warm curing after	days	approx. 7	
Processing conditions	°C	+10 to +30 +10 to +20 +60 / +80	air- and undergroundtemperature materialtemperature min./max. curing temperature

## Product characteristics BRAWO® TC

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 +20°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: 01/2019

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