

## BRAWO LR

### UV-curing styrene-free vinyl ester resin for soaking hose liners for the rehabilitation of waste water pipes

#### Product properties

- Low viscosity vinyl ester resin for repairing constantly wet components in contact with waste water
- Free of styrene and with a low VOC content
- Can also be used on moist substrates (waste water pipes)
- Physiologically unharmed (once fully cured)

#### Application areas

- Soaking or impregnating textiles for the rehabilitation of waste water pipes
- Repairing of defective pipes and ducts

#### Manufacturing instructions

##### **Substrate preparation**

The substrate should 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 base should be stable and have the generally required tear strength of min. 1.5 N/mm<sup>2</sup>.

##### **Resin preparation**

**Attention:** When preparing and processing the resin, do not expose it to direct sunshine or UV light, as this leads to the curing of the resin!

As components in the resin can settle whilst being stored, the container should be carefully and homogeneously mixed before processing using slow-running mechanical mixing devices. Dosing is done using weighing scales: alternatively, suitable resin dosing units can also be used.

For ecological reasons it is necessary to completely empty the container.

##### **Processing**

BRAWO resins are applied and processed using the soaking or impregnation method.

The textile fabric being soaked must be dry, otherwise it is not possible to wet the textile fibres deeply. This may lead to strength losses.

Before starting the installation process, care must be taken that no water flows into the rehabilitation area during the installation process.

##### **Safety**

Attention is to be paid to the usual rules of conduct when handling reaction resins. Whilst processing, suitable protective clothing, protective gloves and safety goggles / face protection should be worn. It is essential to follow the safety advice / hazard information on labels and safety data sheets.

## Technical properties of BRAWO LR

(if no separate information is given, all values relate to + 23° C and 50 % rel. humidity)

Parameter	Unit	Value	Comments
Basis / number of components		Vinyl ester resin / one	
Density	kg / l	1.10 ± 0.05	
Shelf life / max. storage time	Months	6	
Shelf life / processing time of the soaked textile	Days	approx. 7	
Curing speed of the soaked textile with the Brawo LumCure or UV-Relining unit	m/min	approx. 0.6 in DN 100 approx. 0.4 in DN 150 approx. 0.3 in DN 200	
Consumption	l * mm / m <sup>2</sup>	0.95 as a rule	depending on the density and thickness of the textile used
Processing conditions	°C	+5 to +30	Air and substrate temperature

## BRAWO LR product features

Colour	Pale yellow, transparent
Cleaning agent	White spirit
Storage	<p>Can be stored for at least 6 months in tightly sealed original containers at temperatures from +5°C to +30°C and dry conditions</p> <p><b>Attention:</b> Do not expose resin to sunlight, as this will lead to the resin curing immediately!</p> <p>It must be stored frost free.</p> <p>For optimal processability, bring the components to a temperature of +20 °C before processing. We recommend storage in a climate-controlled cabinet to achieve the correct temperature.</p>
Container disposal	<p>Fully emptied containers can be sent for recycling.</p> <p>Resin residue can be cured in layers of a few mm using a UV lamp.</p> <p>Cured resin and liner can be disposed of as residual waste</p> <p>Uncured resin must be sent to a suitable disposal site as hazardous waste.</p>

### Safety notes:

High temperatures reduce, whilst low temperatures extend all specified time intervals. The resin is subject to labelling in accordance with the hazardous substances ordinance. Attention must be paid to the information and advice on the containers during processing. Please pay attention to the hazard information and safety advice on the labels and safety data sheets.

Note: The information provided in this data sheet is based on our experience to the best of our knowledge but is not binding. It is to be tailored to the respective building objects, purposes and the particular local demands. Our information relates to the generally accepted rules of technology, which are also to be observed during implementation. Subject to this, we are liable for the correctness of this information as part of our sales and delivery conditions. Recommendations that differ from the details in our data sheets, which are made by our employees, are only binding on us if they are confirmed in writing. In any event, the generally accepted rules of technology are to be complied with. Reserve technical changes.

As at: 03/2019

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