

# BRAWO RR

Two-component epoxy resin for the impregnation of top hat profiles and fabrics for the renovation of connecting pieces in waste water engineering

<b>Product Properties</b>
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| <ul style="list-style-type: none"> <li>• Low-viscosity, cold- and warm-hardening two-component epoxy resin</li> <li>• High strengths when hardening from above 5°C</li> <li>• Good resistance to acids and alkalis (please request a confirmation in individual cases)</li> <li>• Can be used with wet and dry mineral (e.g. sewer pipes) or metallic substrates</li> <li>• Good adhesion to concrete, brick and ceramics</li> <li>• Physiologically harmless (after hardening fully)</li> </ul> |
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<b>Areas of Application</b>
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| <ul style="list-style-type: none"> <li>• for impregnation and roller-impregnation in felt and fibreglass supporting and reinforcing fabrics using the top hat profile method</li> <li>• for the renovation of defective pipes, channels and other structures in waste water technology</li> </ul> |
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<p><b>Application Advice</b></p> <p><b>Substrate Preparation</b> The substrate must be clean and free from loose matter, dust, oil, grease or other materials that would prevent a good bond. It can be wet or dry. The substrate must be capable of bearing loads and have a minimum adhesion strength of 1.5 N/mm<sup>2</sup>.</p> <p><b>Mixing</b> The base and hardener components, which are supplied in containers of the appropriate size for the relative quantities used, are to be mixed homogenously with one another using slow-running mechanical stirrers or a suitable static mixer. It is essential that the containers are emptied completely to ensure that the mixing ratio is complied with, and also for reasons related to proper disposal.</p>	<p><b>Processing</b> The order or the processing by BRAWO RR is done using either the impregnation or the roller-impregnation process. The fabric, felt or top hat profiles to be impregnated must be dry, since otherwise it is not possible to ensure inner wetting of the fibres of the fabric. This can result in a loss of strength of the liner or else cause problems with the hardening process. Ensure before starting the installation process with the impregnated top hat section that there is no flow of water in the sanitary area during the installation process.</p> <p><b>Safety Advice</b> The usual rules of procedure for reactive resin-based systems must be observed. Suitable protective clothing, protective gloves and if necessary safety glasses and face protection must be worn when using this product. Observe the safety advice and hazard notices on the labels and safety data sheets.</p>
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<b>Technical data BRAWO RR</b>			
<b>Characteristic</b>	<b>Unit</b>	<b>Value</b>	<b>Comments</b>
Density (mixture)	kg/l	1,12	At 23°C and 50% relative humidity
Mixing ratio	Parts by weight	3 1	Component A (base) Component B (hardener)
Container processing time 1.5 kg at + 15°C material / air temperature	Minutes	about 15	At 15°C and 50% relative humidity
Processing time of the impregnated fabric, laid out lengthwise	Minutes	about 30	at 15°C
Hardening time of the impregnated fabric (3 mm)	Hours	about 6	Without groundwater contact at + 10°C
Hardening time of the impregnated fabric (3 mm)	Minutes	about 75	at 50°C
Temperature for use	°C	+ 5 to + 30	Air, substrate and material temperature
Consumption	l/mm/m <sup>2</sup>	about 0.9	Depending on the thickness of the fabric or felt used
Time until it is fully resistant to chemicals	d	7	At 23°C and 50% relative humidity

<b>Product Characteristics</b>	
Basis	Epoxy resin
Form supplied	1.5 kg pack
Number of components	2
Colour	Green
Cleaner	MC-cleaner U
Storage (unmixed)	Can be stored for at least 12 months in tightly closed original containers in cool (> + 5°C < + 20°C) and dry conditions. Good results cannot not be guaranteed if it is stored under excessively cold conditions.
Container disposal	Make sure the container is completely empty. Refer to our information sheet on the packaging regulation "The MC disposal concept for completely empty transport and sales packaging". We would be pleased to send you this on request.

Note: The statements in this data sheet are made on the basis of our experience and to the best of our knowledge, but are not binding. The respective objects and applications and any particular local conditions must be taken into consideration. Our details relate to the generally accepted technical as of this moment, which also need to be followed in execution. Subject to the above reservations, we will be liable for the correctness of these statements, within the framework of our terms of sale and delivery. Any recommendations made by our employees that deviate from the data sheets are only binding on us if they have been confirmed in writing. The generally acknowledged rules of the technology must be complied with in every case.  
As of 11 / 2009 pc