

PU Injection Foam Resins

## WEBAC® 151



- ▶ WEBAC® 151 is a universal PU injection foam resin adjustable at a mixing ratio of 1:1 to 1:10.

### Range of application

- Filling of gaps and cavities/voids in masonry and concrete in case of water ingress
- Solidification of highly fissured masonry (e.g. natural stone masonry)
- Anchor head sealing for the rear anchoring of drilling anchors in special civil engineering
- Shaft repair

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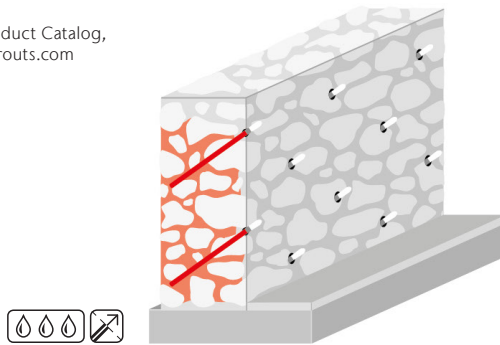
[www.webac.de](http://www.webac.de)

### Properties

- Mixing ratio of 1 : 1 to 1 : 10
- Consistency adjustable:
  - Soft
  - Flexible
  - Solid
- Adjustable reaction time
- Universally applicable

### Example

Meaning of the icons ▶ WEBAC Product Catalog,  
[www.webac.de](http://www.webac.de) or [www.webac-grouts.com](http://www.webac-grouts.com)



Filling of cavities/voids  
in masonry

## ▶ Technical Information

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Technical data	Values				
		1 : 1 parts by volume	1 : 5 parts by volume	1 : 10 parts by volume	
Mixing ratio		1 : 1 parts by volume	1 : 5 parts by volume	1 : 10 parts by volume	
Apparent density of foam		≈ 56 kg/m <sup>3</sup>	≈ 33 kg/m <sup>3</sup>	≈ 36 kg/m <sup>3</sup>	
Density, 20 °C / 68 °F (ISO 2811)	<b>Comp. A</b> <b>Comp. B</b>	≈ 0.97 g/cm <sup>3</sup> ≈ 1.1 g/cm <sup>3</sup>			
Pot life		<b>23 °C / 73 °F</b> > 120 min	<b>12 °C / 54 °F</b> ≈ 120 min		
Application temperature Building structure and material		> 5 °C / 41 °F			
Viscosity of mixture	<b>parts by volume</b>	<b>23 °C / 73 °F</b>	<b>12 °C / 54 °F</b>		
	<b>1 : 1</b>	≈ 1,130 mPa·s	≈ 1,160 mPa·s		
	<b>1 : 5</b>	≈ 300 mPa·s	≈ 480 mPa·s		
	<b>1 : 10</b>	≈ 240 mPa·s	≈ 410 mPa·s		
Foam reaction with 10% water Start   End	<b>parts by volume</b>	<b>20 °C / 68 °F</b>	<b>12 °C / 54 °F</b>		<b>5 °C / 41 °F</b>
	<b>1 : 1</b>	≈ 8 s   ≈ 30 s	≈ 10 s   ≈ 35 s	≈ 16 s   ≈ 42 s	
	<b>1 : 5</b>	≈ 15 s   ≈ 70 s	≈ 20 s   ≈ 80 s	≈ 25 s   ≈ 95 s	
	<b>1 : 10</b>	≈ 20 s   ≈ 100 s	≈ 35 s   ≈ 160 s	≈ 45 s   ≈ 190 s	
Expansion with 10% water (EN 14406)	<b>parts by volume</b>				
	<b>1 : 1</b>	≈ 10–15-times			
	<b>1 : 5</b>	≈ 30–35-times			
<b>1 : 10</b>	≈ 25–30-times				
Watertightness (EN 14068)		> 1 bar			
GISCODE		PU40			
EPD		EPD-DBC-20130014-IBG1-D			
Exposure scenarios according to REACH		Assessment of industry standard application			

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The specified data are values determined under laboratory conditions and are subject to a certain fluctuation. Deviations are possible in practice depending on the respective object situation.

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### Preparatory work

- ▶ See **WEBAC Brochures Sealing of Masonry and Crack Repair**



Sealing of Masonry



Crack Repair



### Mixing

#### Application by 1C pump

- Empty component A and B at the given mixing ratio into a bucket (make sure that the containers are completely empty) and mix homogenously
- Transfer the mixed material to the hopper

#### Application by 2C pump (1 : 1 mixing ratio)

- Fill component A and B into the respective hoppers
- The components are mixed homogeneously in the mixing head



### Application instruction

- Mixed material is moisture-sensitive; contact with water (e.g. rain) must be avoided
- If a prepared mixture is not used immediately, air humidity may cause a skin on the surface; this skin must be removed prior to further use (do not mix into the material!)
- Make sure the filter in the hopper is clean
- The mixture must be used completely within 2 hours
- Only use pure WEBAC material without any residues of cleaning agents or other impurity

- The reaction speed is influenced by the temperature of the material and the building structure – higher temperatures accelerate, lower temperatures slow down the reaction



### Application

- The injection pressure depends on the nature and condition of the building structure, limited to the water-bearing areas
- The injection is carried out in intervals, preferably in the rear third of the structural element's cross section. Conclusions can be drawn from the reaction of the material (surface emergence etc.) to decide whether to continue or to stop the injection
- For permanent sealing inject PU resin via additional installed drill hole packer



### Final work and cleaning

- Once the material has cured remove the packers
- Clean and close the drill holes with suitable non-shrinking mortar
- The patching can be removed as soon as the injection process is completed and the filling material is cured
- Clean the pump with **WEBAC® Cleaner A**
- Use **WEBAC® Cleaner B** for dissolving cured material but never for rinsing pumps
- Observe the technical data sheet of the injection pump and cleaners used
- For detailed information refer to the operating manual of the injection pump used

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Product data															
Application	Injection by 1C pump (2C pump 1 : 1 mixing ratio)														
Packing	<table border="1"> <thead> <tr> <th>Comp. A</th> <th>Comp. B</th> </tr> </thead> <tbody> <tr> <td>19.5 kg</td> <td>22 kg</td> </tr> <tr> <td>10 kg</td> <td>11 kg</td> </tr> <tr> <td>5 kg</td> <td>5.5 kg</td> </tr> <tr> <td>2 kg</td> <td>22 kg</td> </tr> <tr> <td>1 kg</td> <td>11 kg</td> </tr> <tr> <td>0.5 kg</td> <td>5.5 kg</td> </tr> </tbody> </table>	Comp. A	Comp. B	19.5 kg	22 kg	10 kg	11 kg	5 kg	5.5 kg	2 kg	22 kg	1 kg	11 kg	0.5 kg	5.5 kg
	Comp. A	Comp. B													
	19.5 kg	22 kg													
	10 kg	11 kg													
	5 kg	5.5 kg													
	2 kg	22 kg													
1 kg	11 kg														
0.5 kg	5.5 kg														
Storage	<ul style="list-style-type: none"> <li>• Between 5 °C / 41 °F and 30 °C / 86 °F</li> <li>• Protect from moisture</li> <li>• In original, sealed containers</li> </ul>														
Compatibility/Resistance	<ul style="list-style-type: none"> <li>• Compatible with concrete, steel, foil, cable sheathing and WEBAC injection materials</li> <li>• Resistant to harmful salts, alkalis and acids in common concentrations in building structures</li> </ul>														

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### Test certificates

- Test certificate\* according to KTW recommendations: D1 (large sealing of surfaces)
- Further test certificates on request

### Occupational safety

The safety regulations of the industrial trade associations and the WEBAC Safety Data Sheets are to be observed at all times when working with this product. Safety data sheets according to Regulation (EC) No. 1907/2006 (REACH) must be accessible to all persons responsible for occupational safety, health protection and the handling of materials. For further information, please see the separate information sheet "Occupational Safety" in our product catalog or [www.webac-grouts.com](http://www.webac-grouts.com).

\* for drinking water

### Waste disposal

In Germany, empty containers can be disposed of via "Interseroh Dienstleistungs GmbH" observing the respective terms and conditions. It is not possible to dispose of containers at production facilities or delivery warehouses. For more detailed information, please see the separate information sheet "Information on the disposal and return of WEBAC packaging" in our product catalog or [www.webac-grouts.com](http://www.webac-grouts.com) and the safety data sheets.

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