

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.

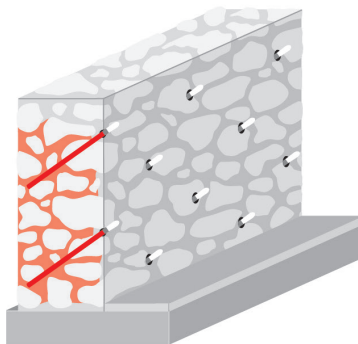
Range of application

- 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

Properties

- Mixing ratio of 1 : 1 to 1 : 10 parts by volume
- Consistency adjustable:
 - Soft
 - Flexible
 - Solid
- Adjustable reaction time

Example



Filling of cavities/voids in masonry

WEBAC®

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▶ Technical Information

All the data indicated in this technical data sheet and any related information provided by our employees are of an advisory nature representing our current state of knowledge and in no way binding. As the exact chemical, technical and physical conditions of the actual application are beyond WEBAC's control, this information does not preclude examination of the products and/or procedures for the intended application and surface by the user. WEBAC is thus unable to guarantee results. The user is fully responsible for the observation of existing regulations and conditions when using the products. © WEBAC-Chemie GmbH. Version 03/2020

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Technical data	Values			
		1 : 1 parts by volume	1 : 5 parts by volume	1 : 10 parts by volume
Mixing ratio				
Density, 20 °C / 68 °F (ISO 2811)	Comp. A	≈ 0.97 g/cm ³		
	Comp. B	≈ 1.1 g/cm ³		
Pot life		23 °C / 73 °F > 120 min	12 °C / 54 °F ≈ 120 min	
Application temperature Building structure and material		> 5 °C / 41 °F		
Viscosity of mixture	parts by volume	23 °C / 73 °F	12 °C / 54 °F	
	1 : 1	≈ 1,130 mPa·s	≈ 1,160 mPa·s	
	1 : 5	≈ 300 mPa·s	≈ 480 mPa·s	
	1 : 10	≈ 240 mPa·s	≈ 410 mPa·s	
Foam reaction with 10% water Start : End	parts by volume	20 °C / 68 °F	12 °C / 54 °F	5 °C / 41 °F
	1 : 1	≈ 8 s ≈ 30 s	≈ 10 s ≈ 35 s	≈ 16 s ≈ 42 s
	1 : 5	≈ 15 s ≈ 70 s	≈ 20 s ≈ 80 s	≈ 25 s ≈ 95 s
	1 : 10	≈ 20 s ≈ 100 s	≈ 35 s ≈ 160 s	≈ 45 s ≈ 190 s
Expansion with 10% water (EN 14406)	parts by volume			
	1 : 1	10–15-times		
	1 : 5	30–35-times		
	1 : 10	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 flushing 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	<ul style="list-style-type: none"> 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
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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"> Between 5 °C / 41 °F and 30 °C / 86 °F Protect from moisture In original, sealed containers 														
Compatibility/Resistance	<ul style="list-style-type: none"> Compatible with concrete, steel, foil, cable sheathing and WEBAC injection materials Resistant to harmful salts, alkalis and acids in common concentrations in building structures 														

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Test certificates

- Test certificate* according to KTW recommendations: D1 (large-surface sealants)
- 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.

* 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 and the safety data sheets.

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