

PU Injection Resins

**WEBAC® 1403P** CE



**WEBAC®**

- ▶ WEBAC® 1403P is a CE-certified PU injection resin for crack injection in concrete elements. In contact with water the resin reacts to a fine-pored closed cellular foam with high chemical resistance.

### Range of application

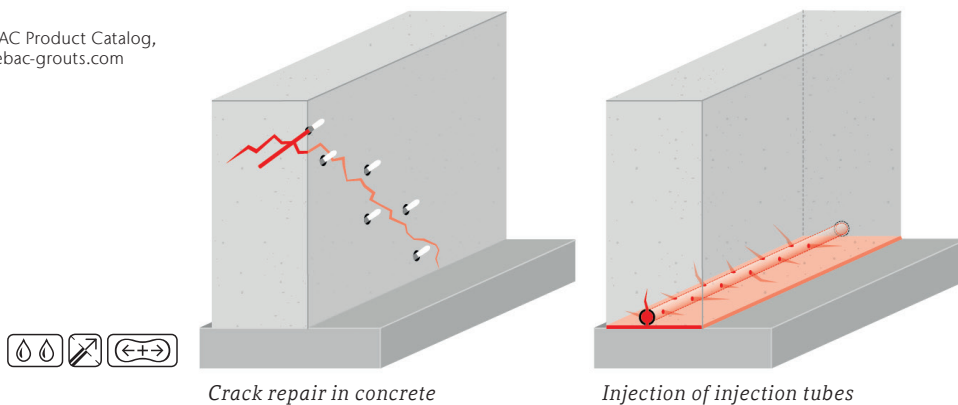
- Crack repair in concrete according to EN 1504-5 (CE-Declaration of Performance 2+)
- Injection of injection tubes (National Test Certificate)
- Sewer repair
- Sealing of construction joints
- Sealing of foundation pits

### Properties

- Low viscosity
- Good elasticity
- High chemical resistance
- Adjustable reaction time (accelerator **WEBAC® B14**)
- With accelerator also suitable for use at low temperatures
- Total solid\*

### Examples

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



Crack repair in concrete

Injection of injection tubes

\*according to test method by Deutsche Bauchemie e.V. (German Industry Association for Manufacturers of Construction Chemicals)

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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.  
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## PU Injection Resins

# WEBAC® 1403P CE

Technical data	Values			
Mixing ratio	1 : 1 parts by volume			
Density, 20 °C / 68 °F (ISO 2811)	<b>Comp. A</b>	≈ 1.0 g/cm <sup>3</sup>		
	<b>Comp. B</b>	≈ 1.1 g/cm <sup>3</sup>		
Pot life		<b>30 °C / 86 °F</b> ≈ 80 min	<b>23 °C / 73 °F</b> ≈ 120 min	<b>12 °C / 54 °F</b> ≈ 140 min
Application temperature Building structure and material	> 5 °C / 41 °F			
Viscosity of mixture		<b>30 °C / 86 °F</b> ≈ 80 mPa·s	<b>23 °C / 73 °F</b> ≈ 105 mPa·s	<b>12 °C / 54 °F</b> ≈ 190 mPa·s
Reaction time with 5% water Start · End · Expansion	<b>21 °C / 70 °F</b> ≈ 2 min 15 s · ≈ 5 min 50 s · ≈ 5-times			
Tear strength · elongation at break 7 d, 21 °C / 70 °F (ISO 527)	≈ 0.46 N/mm <sup>2</sup> · ≈ 36%			
Shore hardness A 7 d, 21 °C / 70 °F (EN 868)	≈ 44/42			
Watertightness (EN 14068)	> 2 bar			
CE classification (EN 1504-5)	U(D1) W(2) (1/2/3) (9/30)			
Fire behavior	B2 according to DIN 4102-4. 2.3.2			
GISCODE	PU40			
EPD	EPD-DBC-20130047-IBG1-D			
Exposure scenarios according to REACH	Assessment of industry standard application			

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 homogeneously
- Transfer the mixed material to the hopper

### Application by 2C pump

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



## Application instruction

- The mixture must be used completely within the specified pot life
- 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 (< 10 bar for low pressure method or high pressure method starting at approx. 20 bar)
- Continue the injection until resin leaks out from the masonry and/or from the adjacent packers. This is necessary to get an even material distribution
- A secondary injection should be carried out depending on the moisture condition and foam behavior



## 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 sheets of the injection pump and cleaners used
- For detailed information refer to the operating manual of the injection pump used

Product data									
Application	Injection by 1C or 2C pump								
Packing	<table border="1"> <thead> <tr> <th>Comp. A</th> <th>Comp. B</th> </tr> </thead> <tbody> <tr> <td>21.2 kg</td> <td>22.5 kg</td> </tr> <tr> <td>10.4 kg</td> <td>11 kg</td> </tr> <tr> <td>5 kg</td> <td>5.3 kg</td> </tr> </tbody> </table>	Comp. A	Comp. B	21.2 kg	22.5 kg	10.4 kg	11 kg	5 kg	5.3 kg
Comp. A	Comp. B								
21.2 kg	22.5 kg								
10.4 kg	11 kg								
5 kg	5.3 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 masonry mortar, concrete, steel, foil, cable sheathing, steel 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**

- Declaration of performance according to Construction Products Regulation
- Test certificate\* according to German Federal Environmental Agency: Repair system for containers
- Test certificate\* according to KTW recommendations: D1 (large sealing of surfaces)
- National Test Certificate **WEBAC® Injection Tube AB** in combination with **WEBAC® 1403P**
- 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).

 **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.

\* for drinking water