

## PU Injection Resins

# WEBAC® 1660 CE



# WEBAC®

- WEBAC® 1660 is a CE-certified PU injection resin with high compressive strength comparable to epoxy resins. Suitable for statical solidification of concrete elements and masonry.

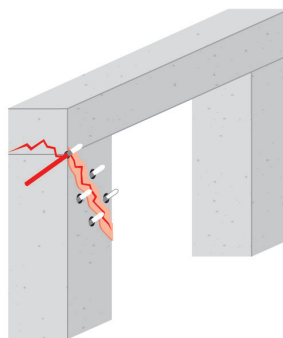
### Range of application

- Crack repair in concrete according to EN 1504-5 (CE declaration of performance 2+)
- Filling of cavities/voids (quarry stone and unconsolidated rock)
- Stabilization of concrete and masonry
- Injection of injection tubes
- Needling of masonry
- Sealing of foundation pits

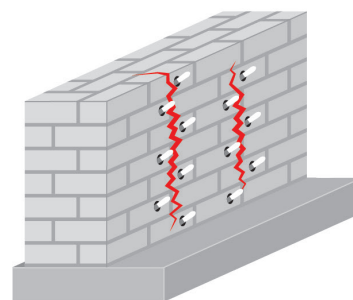
### Properties

- Sealing, stabilizing
- High compressive and bending tensile strength
- Fast curing with and without water
- Slight foam formation upon contact with water
- Adjustable reaction time (accelerator **WEBAC® B16**)
- With accelerator also suitable at lower temperatures
- Microbiologically tested (W 270 test according to DVGW regulations)
- Total solid\*

### Examples



Structural crack repair



Stabilization of masonry

\*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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Technical data	Values			
Mixing ratio	1 : 1 parts by volume			
Density, 20 °C / 68 °F (ISO 2811)	Comp. A Comp. B	≈ 1.0 g/cm³ ≈ 1.2 g/cm³		
Pot life	30 °C / 86 °F ≈ 10 min	20 °C / 68 °F Diaphragm pump ≈ 20 min	Piston pump ≈ 25 min	12 °C / 54 °F ≈ 45 min
Application temperature Building structure and material	> 1 °C / 34 °F			
Viscosity of mixture		30 °C / 86 °F ≈ 280 mPa·s	23 °C / 73 °F ≈ 450 mPa·s	12 °C / 54 °F ≈ 980 mPa·s
Tensile strength on concrete 7 d, 21 °C / 70 °F (EN 12618-2)	dry	≈ 3.0 N/mm²		
Compressive strength 7 d, 21 °C / 70 °F (ISO 604)	≈ 67 N/mm²			
Bending tensile strength 7 d, 21 °C / 70 °F (ISO 178)	≈ 70 N/mm²			
Tensile strength • elongation at break 7 d, 21 °C / 70 °F (ISO 527)	≈ 31 N/mm² • ≈ 1.9%			
E modulus 7 d, 21 °C / 70 °F (ISO 527)	≈ 1,850 N/mm²			
CE classification (EN 1504-5)	U(F1) W(5) (1) (12/30)			
Fire behavior	B2 according to DIN 4102-4. 2.3.2			
GISCODE	PU40			
EPD	EPD-DBC-20130014-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 homogenously
- Transfer the mixed material to the hopper
- An emulsion is formed briefly after mixing which becomes transparent after few minutes

#### 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
- Make sure the filter in the hopper is clean
- 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 flushing 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

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Product data		
Application	<ul style="list-style-type: none"> <li>Injection by 1C or 2C pump</li> </ul>	
Packing	<b>Comp. A</b> 9.75 kg	<b>Comp. B</b> 11.85 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, metal and WEBAC injection materials</li> <li>Resistant to harmful salts, alkalis and acids in common concentrations in building structures</li> </ul>	

### 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: B (containers)
- Microbiologically tested W 270

### 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.

### 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).

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