

## Epoxy Injection Resins

# WEBAC® 4170T CE



# WEBAC®

### Range of application

- Structural filling of cracks and cavities/voids in concrete according to DIN EN 1504-5
- Repair of foundations in wind power plants
- Repair of oil-contaminated and damp cracks
- Casting into cracks

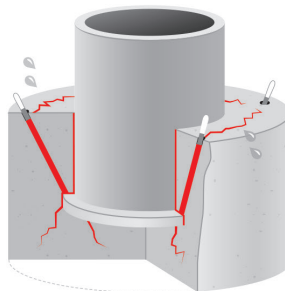
### Properties

- Epoxy-based injection resin
- Suitable at low temperatures
- Very low viscosity
- Suitable for damp and oily crack edges
- Good adhesion
- Total solid\*

### Test certificates

- Declaration of performance in accordance with the Construction Products Regulation (system 2+)
- Certificate of conformity of the factory production control
- Test certificate according to KTW recommendations: D1 (large-surface sealants)
- Environmental Product Declaration (EPD)
- List of chemical resistance

### Examples



*Repair of foundations  
in wind power plants*



*Repair of oil-contaminated cracks*

\*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                                                                | 3 : 1 parts by volume                       |                                                                  |                      |                      |
| Density, 20 °C<br>(DIN ISO 2811)                                            | Comp. A<br>Comp. B                          | ≈ 1.1 g/cm <sup>3</sup><br>≈ 0.96 g/cm <sup>3</sup>              |                      |                      |
| Pot life<br>(WEBAC test specification<br>based on DIN ISO 9514)             |                                             | 30 °C<br>≈ 10 min                                                | 20 °C<br>≈ 20 min    | 12 °C<br>≈ 60 min    |
| Application temperature<br>Building structure and material                  | > 3 °C                                      |                                                                  |                      |                      |
| Viscosity of mixture<br>(WEBAC test specification<br>based on DIN ISO 3219) |                                             | 30 °C<br>≈ 80 mPa·s                                              | 23 °C<br>≈ 110 mPa·s | 12 °C<br>≈ 230 mPa·s |
| Tensile strength on concrete<br>14 d, 21 °C (DIN EN 12618-2)                | dry<br>wet                                  | ≈ 3.8 MPa (N/mm <sup>2</sup> )<br>≈ 3.5 MPa (N/mm <sup>2</sup> ) |                      |                      |
| Compressive strength<br>7 d, 21 °C (DIN ISO 604)                            | ≈ 80 MPa (N/mm <sup>2</sup> )               |                                                                  |                      |                      |
| Bending tensile strength<br>7 d, 21 °C (DIN ISO 178)                        | ≈ 100 MPa (N/mm <sup>2</sup> )              |                                                                  |                      |                      |
| Tensile strength •<br>Elongation at break<br>7 d, 21 °C (DIN ISO 527)       | ≈ 35 MPa (N/mm <sup>2</sup> ) • ≈ 2.5%      |                                                                  |                      |                      |
| E modulus<br>7 d, 21 °C (DIN ISO 527)                                       | ≈ 2,100 MPa (N/mm <sup>2</sup> )            |                                                                  |                      |                      |
| Glass transition temperature T <sub>g</sub>                                 | > 40 °C                                     |                                                                  |                      |                      |
| Shore hardness D<br>7 d, 21 °C (DIN EN 868)                                 | ≈ 75/72                                     |                                                                  |                      |                      |
| CE classification<br>(DIN EN 1504-5)                                        | U(F1) W(1) (1/3) (5/30)                     |                                                                  |                      |                      |
| Fire behavior<br>(DIN 4102-4, 2.3.2)                                        | B2                                          |                                                                  |                      |                      |
| GISCODE                                                                     | RE55                                        |                                                                  |                      |                      |
| EPD                                                                         | EPD-DBC-20220175-IBF1-EN                    |                                                                  |                      |                      |
| Exposure scenarios<br>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

#### Structural analysis

- Preparation of a building condition analysis to determine the actual condition of the structure/component
  - Structure condition
  - Hydrodynamic and hydrostatic conditions
  - Cavities/voids
  - Crack pattern

#### This results in:

- Planning of suitable remediation measures in accordance with the applicable rules and standards
- Selection of suitable material
- Selection of packers/lances
- Positioning of the drill holes and placement of the packers/lances
- Carrying out a test injection if necessary

### Application instruction

- Injection by 1C pump
- Make sure the filter in the hopper is clean
- The mixture must be used completely within 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

Due to the heat development of the injection pump, the pot life of the material may be reduced. Once the material is noticeable warm, it must either be used immediately or removed from the hopper and pump.

### Mixing

- Empty component A and B at the given mixing ratio into a mixing vessel (make sure that the containers are completely empty) and mix homogenously
- Transfer mixed material in a new mixing vessel, stir well again and fill into the hopper of the pump

**Strong heat development – only mix small quantities!**

### Application

- Adapt the injection pressure to the nature and condition of the structure, start the injection by filling the lowest crack areas first
- In the case of horizontal cracks, carry out the injection from one side in order to avoid air inclusions
- Continue the injection until resin leaks out from the adjacent packers to get an even material distribution
- When injecting the last packer check the ventilation hole for apparent resin
- A secondary injection must be carried out within the gelling phase of the material

#### Casting

- Cast mixed material in the prepared crack

### Final work and cleaning

- After the material is cured, knock off patching if necessary and remove packers
- Close the drill holes with suitable non-shrinking mortar and re-profile the surface
- 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

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| Product data  |                                                                                                                                                   |         |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------|
|               | Comp. A                                                                                                                                           | Comp. B |
| Delivery form | 16.85 kg                                                                                                                                          | 4.8 kg  |
|               | 10 kg                                                                                                                                             | 2.9 kg  |
|               | 3 kg                                                                                                                                              | 0.86 kg |
|               | 1 kg                                                                                                                                              | 0.29 kg |
| Storage       | <ul style="list-style-type: none"> <li>Between 8 °C and 25 °C</li> <li>Protected from moisture</li> <li>In original, sealed containers</li> </ul> |         |
| Compatibility | <ul style="list-style-type: none"> <li>Compatible with concrete, steel, foil, cable sheathing and WEBAC injection materials</li> </ul>            |         |
| Resistance    | <ul style="list-style-type: none"> <li>Resistant to salts harmful to the building, alkalis and acids</li> </ul>                                   |         |

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

### Waste disposal

In Germany, empty containers can be disposed of via "Interzero Circular Solutions Germany 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 "Disposal Notes" in our product catalog or [www.webac.de](http://www.webac.de) and the safety data sheets.