

## PU Combi Injection Resins

# WEBAC® 155 CE



### Range of application

- Crack repair in components according to DIN EN 1504-5
- Sealing injection in concrete and masonry
- Waterproofing of structures, also in case of pressing water
- Sealing of masonry
- Sealing of anchor heads in special civil engineering

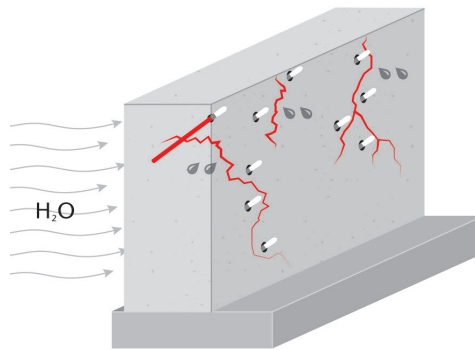
### Properties

- Polyurethan-based combi injection resin
- Permanently sealing
- Moisture-reactive 1C PU resin, applicable without mixing and without catalyst
- Water contact required for foam reaction and curing
- High elasticity and adhesion
- Adjustable reaction time (accelerator **WEBAC® B15**)

### 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

### Example



Crack repair in concrete under hydrostatic pressure

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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 03/2024

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Technical data	Values
<b>Bulk density foam</b> with 5% water (DIN ISO 2811)	≈ 60 kg/m <sup>3</sup>
<b>Density, 20 °C</b> (DIN ISO 2811)	≈ 1.1 g/cm <sup>3</sup>
<b>Application temperature</b> Building structure and material	> 5 °C
<b>Viscosity, 23 °C</b> (DIN ISO 3219)	≈ 255 mPa·s
<b>Foam reaction</b> Start • End • Expansion	<b>20 °C</b> with 5% water ≈ 25 s • ≈ 130 s • ≈ 25-times with 10% water ≈ 20 s • ≈ 130 s • ≈ 22-times
<b>Elongation</b> (DIN EN 12618-1)	> 10%
<b>Tensile strength</b> (DIN EN 12618-1)	≈ 0.6 MPa (N/mm <sup>2</sup> )
<b>CE classification</b> (DIN EN 1504-5)	U(D1) W(3) (2/3/4) (8/30)
<b>GISCODE</b>	PU40
<b>EPD</b>	EPD-FEI-20220021-IBG1-EN
<b>Exposure scenarios according to REACH</b>	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

#### Structural analysis:

- Preparation of a building condition analysis to determine the actual condition of the structure/component
  - Structure condition
  - Hydrodynamic and hydrostatic conditions
  - Water load
  - Salt load
- Determine the necessary key figures for soil injections (soil expertise/porosity etc.)

#### This results in:

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

### Application instruction

- Injection by 1C pump
- Material is moisture-sensitive; contact with water (e.g. rain) must be avoided
- If the material 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
- Applicable for at least 1 h under normal building conditions
- 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

### Mixing

- Material is ready to use, transfer to the hopper

### Application

- Adapt the injection pressure to the nature and condition of the building structure
- 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
- A secondary sealing with WEBAC PU Resin is **NOT** necessary

### Final work and cleaning

- Once the material has cured remove the packers
- Clean the drill holes and close with suitable non-shrinking mortar
- Clean the component surface of patched cracks, grind flat if necessary
- 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

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### Product data

	Unit
Delivery form	10.6 kg 5.3 kg
Storage	<ul style="list-style-type: none"><li>• Between 5 °C and 30 °C</li><li>• Protected from moisture</li><li>• In original, sealed containers</li></ul>
Compatibility	<ul style="list-style-type: none"><li>• Compatible with masonry mortar, concrete, steel, foil, cable sheathing, metal and WEBAC injection materials</li></ul>
Resistance	<ul style="list-style-type: none"><li>• Resistant to salts harmful to the building, alkalis and acids in common concentrations in building structures</li></ul>

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

### 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.com](http://www.webac.com) and the safety data sheets.

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