PU Combi Injection Resins

# WEBAC® 1500 CE

## Range of application

- Crack repair in components according to DIN EN 1504-5
- Seepage in concrete
- Sealing injection in concrete and masonry
- Sealing of construction joints (gravel nests/honey combs)
- Filing of cavities/voids in masonry and concrete in case of water inrush
- Damp proof course (dpc) in masonry
- Sealing of foundation pits

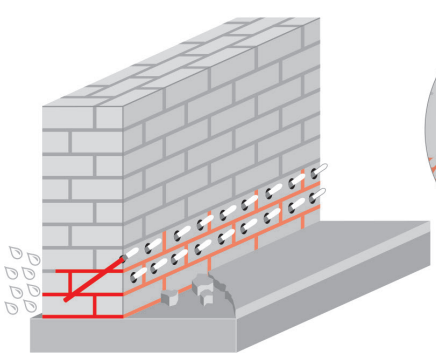
## Properties

- Polyurethan-based combi injection resin
- Fast curing with and without water
- Fast sealing foam structure upon contact with water (pressing water)
- Low viscosity
- Elastic foam structure
- Fast curing – permanent sealing
- Adjustable reaction time (accelerator **WEBAC® B15**)
- Also suitable for use at low temperatures

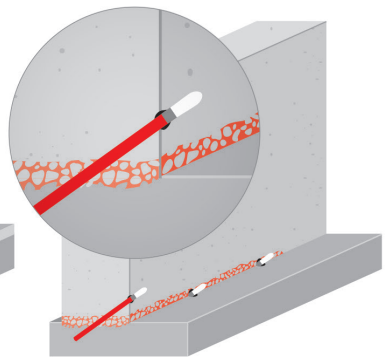
## Test certificates

- 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-BWGL recommendations: sealants, lubricants
- Environmental Product Declaration (EPD)
- List of chemical resistance

## Examples



*Damp proof course (dpc) in masonry*



*Sealing of construction joints*

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**Technical Information**

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| Technical data | Values | | |
|---|---|---|---|
| **Mixing ratio** | | 1 : 1 parts by volume | |
| **Density**, 20 °C (DIN ISO 2811) | **Comp. A** | ≈ 1.0 g/cm³ | |
| | **Comp. B** | ≈ 1.1 g/cm³ | |
| **Pot life** (WEBAC test specification based on DIN ISO 9514) | | **20 °C** | **12 °C** |
| | | **Diaphragm pump** ≈ 15 min | ≈ 30 min |
| | | **Piston pump** ≈ 20 min | |
| **Application temperature** Building structure and material | | > 3 °C | |
| **Viscosity of mixture** (WEBAC test specification based on DIN ISO 3219) | | **23 °C** ≈ 450 mPa·s | |
| **Foam reaction** Start · End · Expansion | | **21 °C** | |
| | **with 5% water** | ≈ 55 s · ≈ 3 min · ≈ 12-times | |
| | **with 10% water** | ≈ 55 s · ≈ 3.5 min · ≈ 10-times | |
| **Elongation** (DIN EN 12618-1) | | > 10% | |
| **Adhesive strength** (DIN EN 12618-1) | | ≈ 0.3 MPa (N/mm²) | |
| **Shore hardness A** (DIN EN 868) | | ≈ 50/45 | |
| **CE classification** (DIN EN 1504-5) | | U(D1) W(3) (1/2/3) (9/30) | |
| **GISCODE** | | PU40 | |
| **EPD** | | EPD-FEI-20220021-IBG1-EN | |
| **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

**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 or 2C pump
- 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 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

**Application by 1C pump**

- 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

**Application by 2C pump**

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

## Application

- Adapt the injection pressure to the nature and condition of the building structure
- 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 must be carried out depending on the moisture condition and foam behavior

## 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

| | | |
|---|---|---|
| **Delivery form** | **Comp. A**<br>9.65 kg | **Comp. B**<br>10.25 kg |
| **Storage** | • Between 5 °C and 30 °C<br>• Protected from moisture<br>• In original, sealed containers | |
| **Compatibility** | • Compatible with masonry mortar, concrete, steel, foil, cable sheathing, metal and WEBAC injection materials | |
| **Resistance** | • Resistant to salts harmful to the building, alkalis and acids in common concentrations in building structures | |

## 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.

## 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 and the safety data sheets.

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