PU Injection Foam Resins

# WEBAC® 157 CE

▸ WEBAC® 157 is an elastic PU injection foam resin with a fine-pored foam structure. WEBAC® 157 is specially designed for applications with movements within the structure.

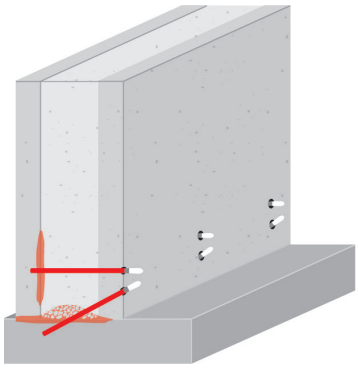
## Range of application

- Sealing of:
  - Junctions between cast in-situ concrete and precast units
  - Expansion joint tapes with stainless steel rails
  - Semiprecast concrete elements joints
  - Pipe ducts
  - Floor/wall connection
  - Separation joints in buildings
- Filling of cavities/voids in masonry
- Sealing of anchor heads in special civil engineering

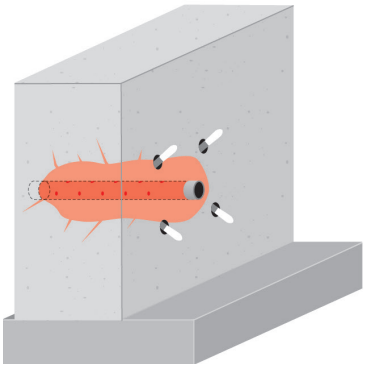
## Properties

- Elastic foam structure
- Low expansion pressure
- Adjustable reaction time (accelerator **WEBAC® B15**)

## Examples



*Sealing of semi-precast concrete element joints*



*Sealing of pipe ducts*

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**Technical Information**

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| Technical data | Values | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Mixing ratio** | 1 : 1 parts by volume | | | | | | | |
| **Density,** 20 °C / 68 °F (ISO 2811) | **Comp. A** ≈ 0.98 g/cm³<br>**Comp. B** ≈ 1.1 g/cm³ | | | | | | | |
| **Pot life** | | | **30 °C / 86 °F** > 120 min | | **23 °C / 73 °F** > 120 min | | **12 °C / 54 °F** ≈ 120 min | |
| **Application temperature** Building structure and material | > 5 °C / 41 °F | | | | | | | |
| **Viscosity of mixture** | | | **23 °C / 73 °F** ≈ 400 mPa·s | | **12 °C / 54 °F** ≈ 500 mPa·s | | | |
| **Foam reaction** with 10% water Start ⁞ End | **30 °C / 86 °F** | | **20 °C / 68 °F** | | **12 °C / 54 °F** | | **5 °C / 41 °F** | |
| | ≈ 15 s | ≈ 70 s | ≈ 20 s | ≈ 80 s | ≈ 25 s | ≈ 90 s | ≈ 40 s | ≈ 120 s |
| **Expansion** with 10% water (EN 14406) | ≈ 15-times | | | | | | | |
| **Watertightness** (EN 14068) | > 1 bar | | | | | | | |
| **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

**Application by 2C pump**

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

## Application instruction

- 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 2 hours
- 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, limited to the water-bearing areas
- 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
- For permanent sealing inject PU resin via additional installed drill hole packer

## 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 sheet 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** | • Injection by 1C or 2C pump | |
| **Packing** | **Comp. A** | **Comp. B** |
| | 19.8 kg | 21.8 kg |
| | 9.75 kg | 10.75 kg |
| | 4.5 kg | 5 kg |
| **Storage** | • Between 5 °C / 41 °F and 30 °C / 86 °F<br>• Protect from moisture<br>• In original, sealed containers | |
| **Compatibility/Resistance** | • Compatible with concrete, steel, foil, cable sheathing and WEBAC injection materials<br>• Resistant to harmful salts, alkalis and acids in common concentrations in building structures | |

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## Test certificates

- Test certificate* according to German Federal Environmental Agency: Repair system for containers
- Test certificate* according to KTW recommendations: D1 (large-surface sealants)

## 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.

## 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 and the safety data sheets.

* for drinking water