PU Injection Foam Resins

WEBAC® 150

WEBAC® 150 is a universally applicable PU injection foam resin, designed for fast and temporary stopping of pressing water.

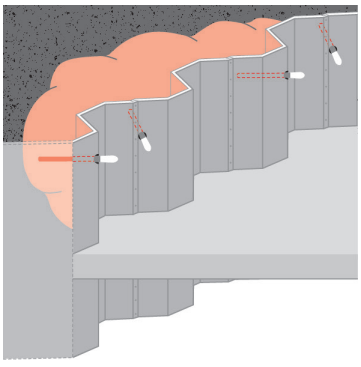
Range of application

- Crack repair in concrete
  - Tested according to ZTV-ING (RISS), (BASt list)
  - Tested/monitored according to DIN V 18028 by iBMB
- Filling cavities/voids in masonry and concrete in case of water ingress
- Curtain injection without adding accelerator according to National Technical Approval
- Sealing of foundation pits (material curtain - curtain injection in adjacent foundation soil): sheet pile wall, bore pile wall, underwater concrete
- Sealing of anchor heads in special civil engineering
- Sealing in hydraulic engineering e.g. (drinking) water tanks
- Shaft repair

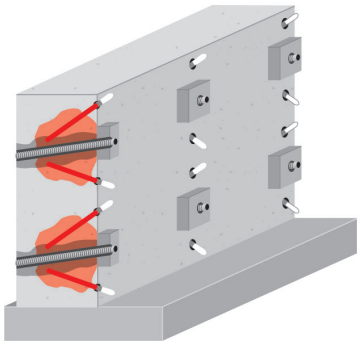
Properties

- Fast and highly expanding foam
- Foam structure not too rigid
- Adjustable reaction time (accelerator **WEBAC® B15**)
- Good reactivity and extraordinary resistance to alkaline water up to pH-value 13

Examples



Sealing of sheet pile walls



Sealing of anchor heads

WEBAC-Chemie GmbH
Fahrenberg 22
22885 Barsbüttel
Germany
Tel. +49 40 67057-0
Fax +49 40 6703227
info@webac.de

www.webac.de

Technical Information

PU Injection Foam Resins

WEBAC® 150

Technical data

Technical data	Values							
Mixing ratio	1 : 1 parts by volume							
Density, 20 °C / 68 °F (ISO 2811)	**Comp. A** ≈ 1.0 g/cm³ **Comp. B** ≈ 1.2 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			**30 °C / 86 °F** ≈ 300 mPa·s		**23 °C / 73 °F** ≈ 600 mPa·s		**12 °C / 54 °F** ≈ 800 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**	
	≈ 12 s	≈ 60 s	≈ 14 s	≈ 65 s	≈ 20 s	≈ 75 s	≈ 25 s	≈ 85 s
Expansion with 10% water (EN 14406)	≈ 40-times							
Watertightness (EN 14068)	> 1 bar							
Compressive strength · compression set* (ISO 604)	**QS 0.1–0.4 mm** ≈ 0.47 N/mm² · ≈ 13% **QS 0.4–0.8 mm** ≈ 0.36 N/mm² · ≈ 9% **QS 0.7–1.2 mm** ≈ 0.70 N/mm² · ≈ 10%							
Fire behavior PU foam-sand mixture	B2 according to DIN 4102-1 6.2.5.2							
GISCODE	PU40							
EPD	EPD-DBC-20130047-IBG1-D							
Exposure scenarios according to REACH	Assessment of industry standard application							

* Foam-sand samples from laboratory mixtures with foam : sand = 1 : 20 parts by weight incl. 5% water referring to PU foam percentage.

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.

WEBAC-Chemie GmbH
Fahrenberg 22
22885 Barsbüttel
Germany
Tel. +49 40 67057-0
Fax +49 40 6703227
info@webac.de

www.webac.de

Technical Information

PU Injection Foam Resins

WEBAC® 150

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

WEBAC-Chemie GmbH
Fahrenberg 22
22885 Barsbüttel
Germany
Tel. +49 40 67057-0
Fax +49 40 6703227
info@webac.de

www.webac.de

Technical Information

PU Injection Foam Resins

WEBAC® 150

Product data

		Comp. A	Comp. B
Application		• Injection by 1C or 2C pump	
Packing		200 kg	250 kg
		21 kg	26 kg
		10.5 kg	13 kg
		5 kg	6.2 kg
	Combi:	0.45 kg	0.55 kg
Storage		• Between 5 °C / 41 °F and 30 °C / 86 °F • Protect from moisture • In original, sealed containers	
Compatibility/Resistance		• Compatible with concrete, steel, foil, cable sheathing and WEBAC injection materials • Resistant to harmful salts, alkalis and acids in common concentrations in building structures	

WEBAC-Chemie GmbH
Fahrenberg 22
22885 Barsbüttel
Germany
Tel. +49 40 67057-0
Fax +49 40 6703227
info@webac.de

www.webac.de

Test certificates

- National Technical Approval
- Test certificate* according to German Federal Environmental Agency: Repair system for containers
- Test certificate* according to KTW recommendations: D1 (large-surface sealants)
- Registered in the BASt list
- Further test certificates on request

* for drinking water

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.

Technical Information