PU Injection Resins

WEBAC® 1420

- WEBAC® 1420 is specially designed for areas exposed to high biological/ chemical stress (e.g. facilities in agricultural sector or in waste water disposals). Due to its 10-fold foam expansion even water-bearing cracks can be sealed.

Range of application

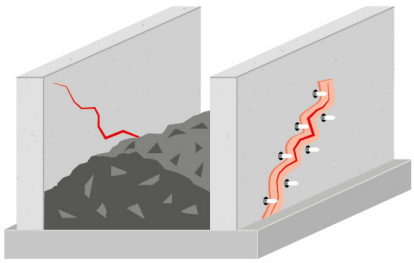
- Sealing of cracks and construction joints in agricultural structures or waste water disposals
- Crack repair in drinking water tanks
- Damp proof course (dpc) and sealing in masonry
- Connection joints of precast unit elements
- Joints of cast in-situ concrete/precast units
- Separation joints in buildings

Properties

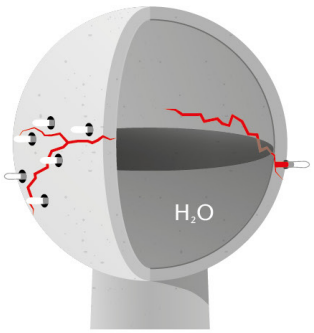
- High chemical resistance also to biogenic sulfuric acid
- Highly flexible
- Dimensionally stable
- Quick-seal foam upon contact with water
- Compatible with bitumen
- Microbiologically tested (W 270 test according to DVGW regulations)
- Total solid*

Examples

Meaning of the icons ▸ WEBAC Product Catalog, www.webac.de or www.webac-grouts.com



Crack repair in manure reservoirs



Crack repair in drinking water tanks

*according to test method by Deutsche Bauchemie e.V. (German Industry Association for Manufacturers of Construction Chemicals)

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 Resins

WEBAC® 1420

Technical data

Technical data	Values			
Mixing ratio		3 : 1 parts by volume		
Density, 20 °C / 68 °F (ISO 2811)	**Comp. A** **Comp. B**	≈ 1.0 g/cm³ ≈ 1.2 g/cm³		
Pot life		**30 °C / 86 °F** ≈ 60 min	**23 °C / 73 °F** ≈ 100 min	**12 °C / 54 °F** ≈ 100 min
Application temperature Building structure and material		> 5 °C / 41 °F		
Viscosity of mixture		**30 °C / 86 °F** ≈ 220 mPa·s	**23 °C / 73 °F** ≈ 300 mPa·s	**12 °C / 54 °F** ≈ 620 mPa·s
Reaction time with 5% water Start · End · Expansion		**21 °C / 70 °F** ≈ 1 min · ≈ 4 min 30 s · ≈ 10-times		
Tear strength · elongation at break 7 d, 21 °C / 70 °F (ISO 527)		≈ 0.8 N/mm² · ≈ 50%		
Shore hardness A 7 d, 21 °C / 70 °F (EN 868)		≈ 56/48		
Watertightness (EN 14068)		> 2 bar		
Fire behavior		B2 according to DIN 4102-4. 2.3.2		
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.

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 Resins

WEBAC® 1420

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
- An emulsion is formed briefly after mixing which becomes transparent after few minutes

Application instruction

- The mixture must be used completely within the specified 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

Application

- The injection pressure depends on the nature and condition of the building structure (< 10 bar for low pressure method or high pressure method starting at approx. 20 bar)
- 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 should be carried out depending on the moisture condition and foam behavior

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 rinsing 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 used

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

www.webac.de

PU Injection Resins

WEBAC® 1420

Product data

Application	• Injection by 1C pump	
Material consumption for post-construction damp proof course (dpc) (depending on the pore and cavity volume of the masonry)	• Thumb rule: ≈ 1 kg/m per 10 cm wall thickness • For masonry with wall thickness > 60 cm: ≈ 1.2 kg/m per 10 cm wall thickness	
Packing	**Comp. A**	**Comp. B**
	210 kg	3 x 28.6 kg
	16 kg	6.45 kg
	10 kg	4 kg
Storage	• Between 5 °C / 41 °F and 30 °C / 86 °F • Protect from moisture • In original, sealed containers	
Compatibility/Resistance	• Compatible with masonry mortar, concrete, steel, foil, cable sheathing, steel and WEBAC injection materials • Resistant to harmful salts, alkalis and acids in common concentrations in building structures	

Test certificates

- Test certificate* according to KTW recommendations: D1 (large sealing of surfaces)
- Microbiologically tested W 270
- Further test certificates on request

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

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