

PU Injection Resins

WEBAC® 1405



- ▶ WEBAC® 1405 is a CE-certified PU injection resin for crack injection. Due to its delayed foam reaction the material has a good penetration in thicker structures.

Range of application

- Crack repair in concrete according to EN 1504-5 (CE-Declaration of Performance 2+)
 - Tested according to ZTV-ING (RISS)
 - Registered with the BASt list, tested/monitored by IBMB
- Injection of injection tubes (National Test Certificate) and construction joints
- High flexibility in case of movements within the structural element, e.g. bridge construction
- Damp proof course (dpc) and sealing in masonry
- Sealing of foundation pits

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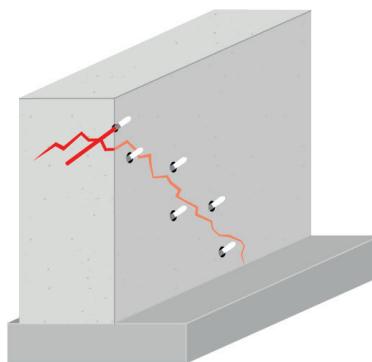
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Properties

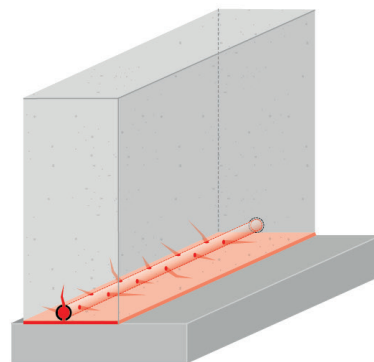
- High elasticity, low foam formation
- Delayed foam formation for good penetration
- Good adhesive power, high edge adhesion to concrete, steel, polymer
- High shear strength
- Resistance to bitumen, coal tar pitch, existing sealings
- Adjustable reaction time (accelerator **WEBAC® B14**)
- With accelerator also suitable for use at low temperatures
- Environmentally friendly, total solid*

Examples

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



Crack repair in concrete



Injection of injection tubes

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

▶ 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.
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Technical data	Values			
Mixing ratio	2 : 1 parts by volume			
Density, 20 °C / 68 °F (ISO 2811)	Comp. A	≈ 0.98 g/cm ³		
	Comp. B	≈ 1.1 g/cm ³		
Pot life	30 °C / 86 °F	23 °C / 73 °F	12 °C / 54 °F	
	≈ 40 min	≈ 60 min	≈ 90 min	
Application temperature Building structure and material	> 5 °C / 41 °F			
Viscosity of mixture	30 °C / 86 °F	23 °C / 73 °F	12 °C / 54 °F	
	≈ 110 mPa·s	≈ 150 mPa·s	≈ 240 mPa·s	
Reaction time with 5% water Start · End · Expansion	21 °C / 70 °F			
	≈ 6 min 30 s · ≈ 10 min · ≈ 1.1-times			
Tear strength · elongation at break 7 d, 21 °C / 70 °F (ISO 527)	≈ 0.21 N/mm ² · ≈ 40%			
Shore hardness A 7 d, 21 °C / 70 °F (EN 868)	≈ 21/21			
Watertightness (EN 14068)	> 2 bar			
CE classification (EN 1504-5)	U(D1) W(2) (1/2/3) (5/30)			
Fire behavior	B2 according to DIN 4102-4. 2.3.2			
GISCODE	PU40			
EPD	EPD-DBC-20130047-IBG1-D			
Exposure scenarios according to REACH	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

- ▶ 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 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

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WEBAC®

Product data

Application	Injection by 1C pump	
Material consumption for post-construction damp proof course (dpc) (depends on the pore and cavity volume of the masonry)	<ul style="list-style-type: none"> • 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	<p>Komp. A</p> <p>2 x 200 kg</p> <p>20 kg</p> <p>10 kg</p> <p>5 kg</p> <p>Combi: 0.645</p>	<p>Komp. B</p> <p>220 kg</p> <p>11.35 kg</p> <p>5.5 kg</p> <p>2.75 kg</p> <p>0.355 kg</p>
Storage	<ul style="list-style-type: none"> • Between 5 °C / 41 °F and 30 °C / 86 °F • Protect from moisture • In original, sealed containers 	
Compatibility/Resistance	<ul style="list-style-type: none"> • 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 	

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Test certificates

- Declaration of performance according to Construction Products Regulation
- Test certificate* according to German Federal Environmental Agency: Repair system for containers
- Test certificate* according to KTW recommendations: D1 (large sealing of surfaces)
- National Test Certificate **WEBAC® Injection Tube AB** in combination with **WEBAC® 1405**
- National Test Certificate **WEBAC® Injection Tube Type 2** in combination with **WEBAC® 1405**
- Registered with the BASt list
- Tested/monitored by Institute for Construction Chemicals IBMB
- Further test certificates on request

Occupational safety/waste disposal

► Downloads on webac-grouts.com



webac-grouts.com/downloads

* for drinking water

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