



PU Injection Resins

WEBAC® 1440

- WEBAC® 1440 is a PU injection resin for special applications. Due to its fast expansion it is often used in structures with cavities/voids.

Range of application

- Sealing injection of masonry and concrete, specially in agricultural facilities
- Stabilization of masonry
- Damp proof course (dpc) in masonry

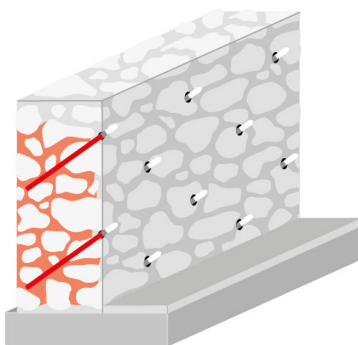
Properties

- Capillary obstruction, solidifying
- Tear resistant foam structure
- Resistant to mechanical stress
- Dynamically stabilizing
- Fast foaming
- Microbiologically tested (W 270 test according to DVGW regulations)
- Total solid*

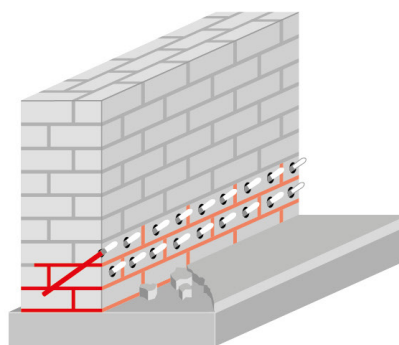
WEBAC-Chemie GmbH
Fahrenberg 22
22885 Barsbüttel
Germany
Tel. +49 40 67057-0
Fax +49 40 6703227
info@webac.de

www.webac.de

Examples



Stabilization of masonry



Damp proof course (dpc) in masonry

*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	3 : 1 parts by volume		
Density, 20 °C / 68 °F (ISO 2811)	Comp. A Comp. B	≈ 1.0 g/cm ³ ≈ 1.2 g/cm ³	
Pot life		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 ≈ 250 mPa·s	12 °C / 54 °F ≈ 590 mPa·s
Reaction time with 5% water Start • End • Expansion		21 °C / 70 °F ≈ 1 min • ≈ 4 min • ≈ 8-times	
Tear strength • elongation at break 7 d, 21 °C / 70 °F (ISO 527)	≈ 0.31 N/mm ² • ≈ 110%		
Shore hardness A 7 d, 21 °C / 70 °F (EN 868)	≈ 47/25		
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.

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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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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	<table> <tr> <th>Comp. A</th><th>Comp. B</th></tr> <tr> <td>210 kg</td><td>3 x 28.6 kg</td></tr> <tr> <td>14.85 kg</td><td>6.05 kg</td></tr> <tr> <td>10 kg</td><td>4 kg</td></tr> </table>	Comp. A	Comp. B	210 kg	3 x 28.6 kg	14.85 kg	6.05 kg	10 kg	4 kg
Comp. A	Comp. B								
210 kg	3 x 28.6 kg								
14.85 kg	6.05 kg								
10 kg	4 kg								
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 								

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.

* for drinking water

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.

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