PU Injection Resins

WEBAC® 1403



WEBAC® 1403 is our most common PU injection resin for sealing and crack repair. The slight foam reaction provides completely closed pores in structural elements.

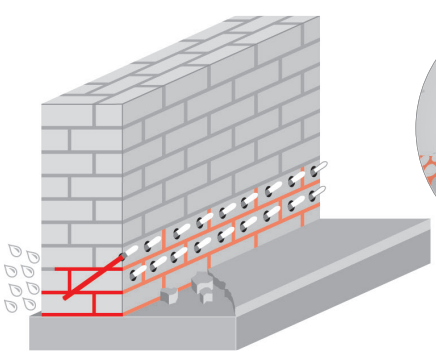
Range of application

- Damp proof course (dpc) in masonry, specially in case of high water load classes
- Sealing of joint tapes
- Sealing seepages in concrete
- Sealing of construction joints (waterproofing of gravel nests/ honey combs) and connection joints of precast walls
- Sealing of foundation pits
- Sealing injection in open-pored concrete structures (e.g. tamped concrete)

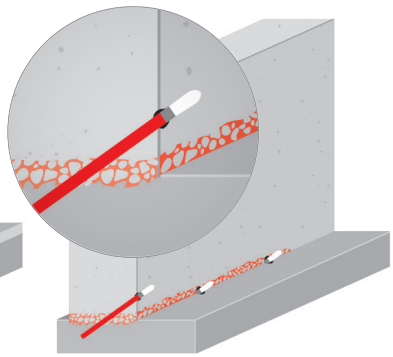
Properties

- Capillary obstruction, solidifying
- Quick-seal foam structure upon contact with water
- Slight foam reaction
- Low viscosity
- Adjustable reaction time (accelerator **WEBAC® B14**)
- With accelerator also suitable for use at low temperatures
- Total solid*

Examples



Damp proof course (dpc) in masonry



Sealing of construction joints

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

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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	1 : 1 parts by volume			
Density, 20 °C / 68 °F (ISO 2811)	**Comp. A** ≈ 1.0 g/cm³ **Comp. B** ≈ 1.1 g/cm³			
Pot life	**30 °C / 86 °F** > 60 min	**23 °C / 73 °F** ≈ 90 min	**12 °C / 54 °F** ≈ 240 min	
Application temperature Building structure and material	> 5 °C / 41 °F			
Viscosity of mixture	**30 °C / 86 °F** ≈ 65 mPa·s	**23 °C / 73 °F** ≈ 80 mPa·s	**12 °C / 54 °F** ≈ 155 mPa·s	
Reaction time with 5% water Start · End · Expansion	**21 °C / 70 °F** ≈ 2 min · ≈ 5 min 30 s · ≈ 5-times			
Tear strength · elongation at break 7 d, 21 °C / 70 °F (ISO 527)	≈ 0.7 N/mm² · ≈ 50%			
Shore hardness A 7 d, 21 °C / 70 °F (EN 868)	≈ 48/43			
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.

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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

- The mixture must be used completely within the specified pot life
- Make sure the filter in the hopper is clean
- 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 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	
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** 198 kg 19.8 kg 9.75 kg 5 kg 1 kg	**Comp. B** 217 kg 21.8 kg 10.75 kg 5.5 kg 1.1 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, metal and WEBAC injection materials • Resistant to harmful salts, alkalis and acids in common concentrations in building structures	

Test certificates

- Test certificate* according to German Federal Environmental Agency: Repair system for containers
- Test certificate* according to KTW recommendations: D1 (large-surface sealants)
- Test Report on the efficiency as injection material for post-construction damp proof courses (dpc) to prevent capillary rising moisture in masonry
- 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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