PU Injection Resins

# WEBAC® 1401

WEBAC® 1401 is an extremely low-viscosity PU injection resin of excellent flow and penetration behavior for post-construction damp proof courses (dpc) according to WTA. Due to its slight foam reaction and long pot life it is specially designed for large wall cross sections.

## Range of application

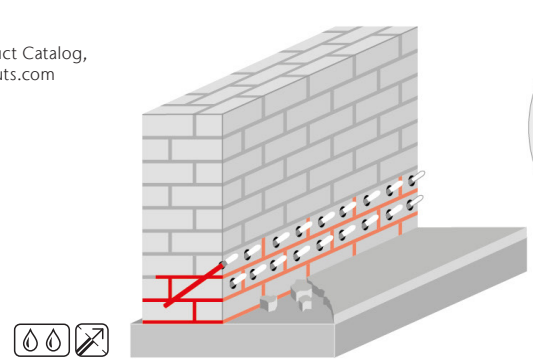
- Damp proof course (dpc) in masonry (certified according to WTA Code of Practice 4-4)
  - Preferably for compact masonry structures and high wall thicknesses
- Sealing of gypsum-based masonry in monument conservation
- Sealing injections in masonry and open-pored concrete structures (e.g. tamped concrete)

## Properties

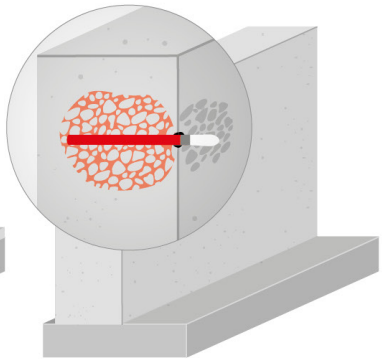
- Capillary obstruction, solidifying
- Extremely low viscosity
- Low foam development
- Good penetration
- Long pot life
- Mainly based on renewable raw materials

## Examples

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



*Damp proof course (dpc) in masonry*



*Sealing of tamped concrete*

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® 1401

## Technical data

| Technical data | Values | | | |
|---|---|---|---|---|
| **Mixing ratio** | | 3 : 1 parts by volume | | |
| **Density**, 20 °C / 68 °F (ISO 2811) | **Comp. A**<br>**Comp. B** | ≈ 0.95 g/cm³<br>≈ 1.2 g/cm³ | | |
| **Pot life** | | **30 °C / 86 °F**<br>≈ 120 min | **23 °C / 73 °F**<br>≈ 120 min | **12 °C / 54 °F**<br>≈ 420 min |
| **Application temperature**<br>Building structure and material | | > 5 °C / 41 °F | | |
| **Viscosity of mixture** | | **30 °C / 86 °F**<br>≈ 35 mPa·s | **23 °C / 73 °F**<br>≈ 45 mPa·s | **12 °C / 54 °F**<br>≈ 78 mPa·s |
| **Reaction time** with 5% water<br>Start · End · Expansion | | **21 °C / 70 °F**<br>≈ 14 min · ≈ 18 min · ≈ 1.1-times | | |
| **Tear strength · elongation at break**<br>7 d, 21 °C / 70 °F (ISO 527) | | ≈ 0.34 N/mm² · ≈ 40% | | |
| **Shore hardness A**<br>7 d, 21 °C / 70 °F (EN 868) | | ≈ 13/11 | | |
| **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® 1401

## 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 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

PU Injection Resins

# WEBAC® 1401

## Product data

| | | |
|---|---|---|
| **Application** | • Injection by 1C pump<br>• Injection by low or high pressure method | |
| **Material consumption** for post-construction damp proof course (dpc) (depending on the pore and cavity volume of the masonry) | • Thumb rule:<br>≈ 1 kg/m per 10 cm wall thickness<br>• For masonry with wall thickness > 60 cm:<br>≈ 1.2 kg/m per 10 cm wall thickness | |
| **Packing** | **Comp. A**<br>180 kg<br>25 kg<br>9 kg | **Comp. B**<br>3 x 25.3 kg<br>10.5 kg<br>3.8 kg |
| **Storage** | • Between 5 °C / 41 °F and 30 °C / 86 °F<br>• Protect from moisture<br>• In original, sealed containers | |
| **Compatibility/Resistance** | • Compatible with masonry mortar, concrete, steel, foil, cable sheathing, steel and WEBAC injection materials<br>• Resistant to harmful salts, alkalis and acids in common concentrations in building structures | |

## Test certificates

- WTA Certificate
- 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.

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

www.webac.de