

WEBAC® 1403P**Polyurethane Injection Resin**

WEBAC 1403P – is a high-quality, low-viscosity polyurethane injection resin designed for sealing structures in dry and wet conditions. As a result of the reaction of WEBAC 1403P with water, including drinking water (in an amount of up to 5% by weight of the resin), a homogeneous, closed-cell, waterproof, porous elastic structure is formed.

In the presence of pressurised water ingress through the crack to be injected, it is recommended to first stop the water inflow using the specialised water-stopping polyurethane foaming resin WEBAC 155. This is necessary to prevent the washout of WEBAC 1403P by the water flow.

Application:

WEBAC 1403P is used for sealing dry and wet cracks in accordance with PN EN 1504-5 (CE/2+) by the injection method. The material is characterised by high flexibility and excellent adhesion to most construction materials.

Cracks injected with WEBAC 1403P polyurethane resin remain watertight under dynamic loads and minor variations in crack width. The material is also suitable for the repair (sealing, stabilisation, and strengthening) of walls containing gypsum, as well as other building structures. Due to its operating principle based on hydrophobic capillary blocking, WEBAC polyurethane resins remain effective even under conditions of high hydrostatic water pressure.

- Crack repair in accordance with PN EN 1504-5 (CE/2+ Declaration of Performance).
- Hygienic certificate HK/W/0543/01/2017 (approved for contact with drinking water).

Properties:

- Mixing ratio 1:1 by volume
- High watertightness
- Low viscosity
- High elasticity
- Predictable reaction time (with WEBAC B14 accelerator)



Preparation for work:

Before injection, a detailed inspection of the structure must be carried out. In order to determine the causes of damage and select the appropriate injection material, the moisture condition of the structure and the nature of the damage (type of cracks, crack width, etc.) must be assessed.

When selecting the type and diameter of injection packers, the results of preliminary inspections and investigations must be taken into account. The packers must be securely fixed in the injection holes.

Mixing:

All components are supplied in containers corresponding to the 1:1 component ratio. Before use, Component A and Component B must be thoroughly mixed in a separate container, ensuring complete emptying of the original containers.

If the entire quantity is not used at once, the required amounts of components must be measured in a 1:1 (by volume) ratio and thoroughly mixed in a separate container. After thorough mixing, the material is loaded into the injection pump container and briefly mixed again.

Injection

WEBAC 1403P is injected using a single- or two-component injection pump. Injection must be carried out exclusively with clean WEBAC 1403P, free from residues of cleaning agents or other contaminants. Injection is performed at a pressure adapted to the structural characteristics of the building and the level of water pressure, typically starting at approximately 20 bar. During crack injection, the resin is injected until the crack is completely filled and material appears in adjacent packers. Heat generated by the injection pump itself may reduce the allowable processing time of the material. If the temperature of the material in the pump container increases, it must be used immediately or removed from the container.



When using a two-component injection pump (e.g. WEBAC IP 2K-F2), a sufficient material flow rate must be set to ensure complete mixing of Components A and B in the mixing head.

Completion of injection:

After 24 hours from completion of injection, the packers must be removed and the holes must be sealed with a suitable repair mortar.

Cleaning:

In the event of long interruptions or after completion of work, the equipment must be thoroughly cleaned using WEBAC Reiniger A. WEBAC® Reiniger B may be used to remove already cured material (not intended for flushing the pump). Adequate ventilation of the working area must be ensured during cleaning. For long-term storage of equipment, the preservative WEBAC K must be used. When using a two-component pump, flush the mixing head with Component A during short interruptions.

Storage:

WEBAC 1403P must be stored at temperatures from +5 °C to +30 °C in the original, tightly closed containers, protected from moisture.

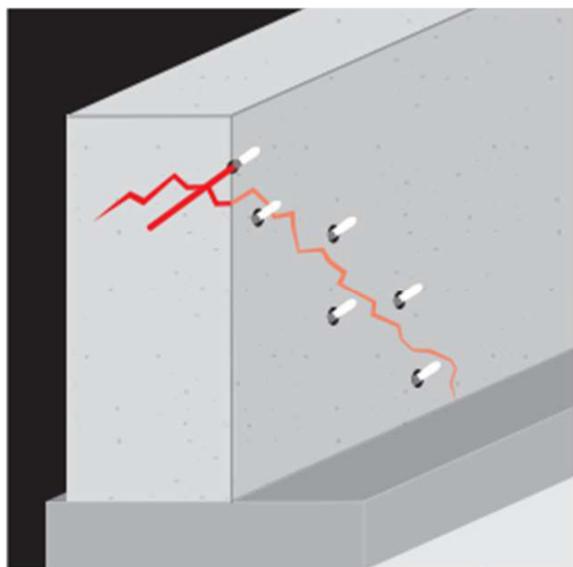
Safety measures:

Safety instructions must be available to all persons responsible for occupational safety, health, and safe handling of materials. Processing and cleaning operations must be carried out using personal protective equipment, including protective clothing, gloves, and safety goggles. The use of protective skin cream is recommended. In case of skin contact, wash off with soap and water. In case of eye contact, rinse immediately with plenty of water and seek medical attention without delay.

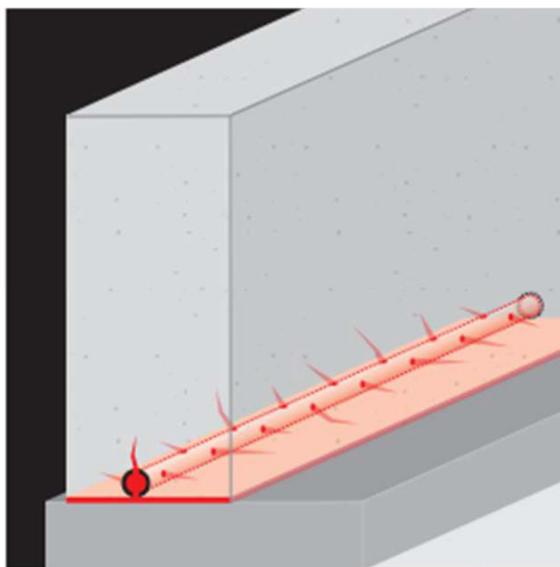
Waste disposal Empty containers may be disposed of at municipal solid waste landfills in accordance with applicable acceptance requirements and



conditions. Return of containers to the manufacturer or shipping warehouses is not provided.



Horizontal waterproofing of masonry



Sealing of junctions

Technical characteristics

Values

Mixing ratio (A:B)	1:1		
Density at +20 °C (ISO 2811):			
- Component A	1,0 g/cm ³		
- Component B	1,1 g/cm ³		
Reaction time (according to ISO 9514)			
- +23 °C	120 min		
- +12 °C	140 min		
Application temperature (substrate and material)	> +5°C		
Viscosity (ISO 3219):			
- +23 °C	105 mPa·s		
- +12 °C	190 mPa·s		
Reaction time (5% water added) at 21 °C:			
- Start	135 min		
- End	350 min		
- Expansion	5 x		
Adhesion	0,46 N/mm ²		
Relative elongation	36 %		
Shore A hardness	44/42		
Waterproofing	> 2 bar		
Fire behaviour (DIN 4102-4, 2.3.2)	B2		
GISCODE	PU40		
CE classification (EN 1504-5)	U (D1) W (2) (1/2/3) (9/30)		
EPD	EPD-DBC-20130047-IBG1-D		
Packaging	43,7 kg	21,4 kg	10,3 kg

