Injection Gels

WEBAC® 250

Range of application

- Damp proof course (dpc) in masonry
- Sealing of surfaces in masonry

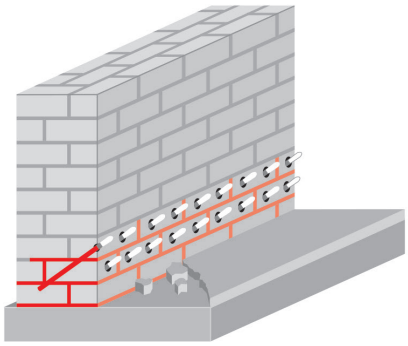
Properties

- Polyacralyte-based injection gel
- Swells upon contact with water
- Very low viscosity
- High elasticity
- Slowly reacting
- Good adhesion to mineral substrates
- High resistance also in alcaline and salt-loaded areas

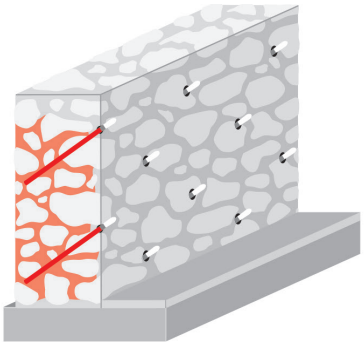
Test certificates

- Test certificate according to KTW recommendations: D1 (large-surface sealants)
- List of chemical resistance

Examples



Damp proof course (dpc) in masonry



Sealing of surface in masonry

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Technical Information

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Technical data

	Values			
Mixing ratio		**Comp. A** **A1 : A2** 15 : 1 parts by weight	**Comp. B** **water : B-powder concentrate** 98.7 : 1.3 parts by weight	
		A : B 1 : 1 parts by volume		
Density, 20 °C (DIN ISO 2811)	**Comp. A1** **Comp. A2** **Comp. B**	≈ 1.1 g/cm³ ≈ 1.0 g/cm³ ≈ 1.0 g/cm³		
Application temperature Building structure and material	> 5 °C			
Viscosity of mixture (WEBAC test specification based on DIN ISO 3219)		**30 °C** ≈ 2 mPa·s	**23 °C** ≈ 2 mPa·s	**12 °C** ≈ 10 mPa·s
Reaction time flow limit solid		**30 °C** ≈ 3 min – 5 min ≈ 6 min – 8 min	**22 °C** ≈ 6 min – 9 min ≈ 10 min – 14 min	**12 °C** ≈ 7 min – 12 min ≈ 12 min – 17 min
Tear strength · Elongation at break 24 h (in foil), 21 °C (DIN ISO 527)	≈ 0.12 MPa (N/mm²) · ≈ 70%			
Shore hardness A 24 h (in foil), 21 °C (DIN EN 868)	≈ 7/3			
Watertightness (DIN EN 14068)	> 3.0 bar			
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.a

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Preparatory work

Structural analysis:

- Preparation of a building condition analysis to determine the actual condition of the structure/component
  - Structure condition
  - Moisture condition
  - Salt load

This results in:

- Planning of suitable remediation measures in accordance with the applicable rules and standards
- Selection of suitable material
- Selection of packers
- Positioning of drill holes and placement of the packers
- Carrying out a test injection if necessary

Application instruction

- Injection by 2C pump (stainless steel)
- Only use stainless steel (V4A) or wooden stirrer for mixing
- All prepared components must be used immediately
- 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

Coloring

- WEBAC Injection Gels can be colored with **WEBAC® F200** to monitor the water displacement, the material distribution as well as to identify any gel leakage
- To color the injection gel, mix ≈ 1% (referring to component A) of the blue color agent **WEBAC® F200** into component A
- The color intensity of the gel will decrease gradually

Mixing

Mixing of component A

- Empty the smaller container of component A2 completely into the larger container of component A1
- Mix both components via stirring while pouring until homogenous

Mixing of component B

- Dissolve B-powder concentrate in a clean plastic container (canister 20 l) by intensive stirring in clean tap water (the required amount of water is then easily obtained by adjusting the level of component B to the level of component A)

→ Prepared **components A** and **B** are delivered at a mixing ratio of 1 : 1 from respective containers directly with a 2C pump and are mixed homogenously in the mixing head

Application

- Adapt the injection pressure to the nature and condition of the building structure
- Inject the injection gel from bottom to top, beginning at the lowest drill hole level
- Continue the injection until injection gel starts leaking from the adjacent packers

Final work and cleaning

- The packers can be removed immediately after gel formation
- Cured gel must be removed from the drill holes/drill hole walls down to about 10 cm deep and the drill holes must be filled (preferably use pcc mortar for concrete and quick set mortar for masonry)
- After completion of the injection, the 2C pump must be thoroughly rinsed with water, at least 20 liters of water per piston side (component)
- Gelled residues must be removed from the equipment mechanically immediately after use
- Observe the technical data sheet and the manual of the injection pump.

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Product data

Material consumption (orientation value)	**Damp proof course (dpc)**	≈ 1.0 – 2.5 kg/m per 10 cm wall thickness		
	Surface sealing in masonry	≈ 20 kg pro m² per 50 cm wall thickness		
Delivery form	**WEBAC® 250**	**Comp. A1** 25 kg	**Comp. A2** 1.6 kg	**Comp. B** 0.35 kg
	WEBAC® F200	**Unit** 1.0 kg		
Storage		• Between 5 °C and 25 °C • Protected from moisture and light • In original, sealed containers		
Compatibility		• Reacted gels are insoluble in water and fuels		
Resistance		• Resistant to diluted acids and salts damaging the structure • Resistant to alternating frost and thaw		

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.com.

Waste disposal

In Germany, empty containers can be disposed of via “Interzero Circular Solutions Germany 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 “Disposal Notes” in our product catalog or www.webac.com and the safety data sheets.

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