Injection Gels

WEBAC® 250

- WEBAC® 250 is a slow-reacting polyacrylate gel for sealing in masonry, obstructing the capillaries.

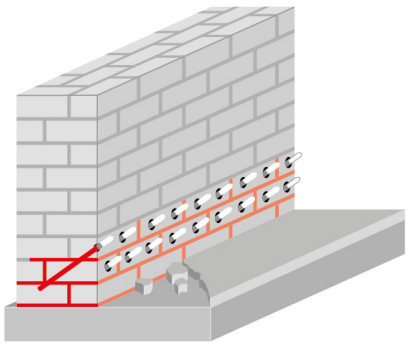
Range of application

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

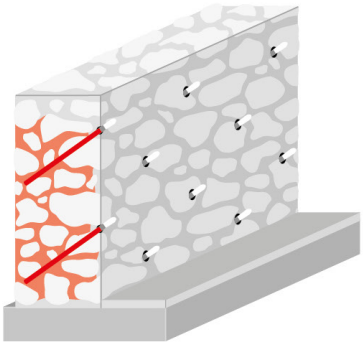
Properties

- Swells upon contact with water
- Water-like viscosity
- High elasticity
- Good adhesion to mineral substrates
- High resistance also in alcaline and salt-loaded areas

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 / 68°F (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 / 41 °F		
Viscosity of mixture		**30 °C / 86 °F** ≈ 2 mPa·s	**23 °C / 73 °F** ≈ 2 mPa·s	**12 °C / 54 °F** ≈ 10 mPa·s
Reaction time flow limit solid		**30 °C / 86 °F** ≈ 3 – 5 min ≈ 6 – 8 min	**22 °C / 72 °F** ≈ 6 – 9 min ≈ 10 – 14 min	**12 °C / 54 °F** ≈ 7 – 12 min ≈ 12 – 17 min
Tear strength · elongation at break 24 h (in foil), 21 °C / 70 °F (ISO 527)		≈ 0.12 N/mm² · ≈ 70%		
Shore hardness A 24 h (in foil), 21 °C / 70 °F (EN 868)		≈ 7/3		
Watertightness (DIN 1048-5)		> 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.

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Preparatory work

- See **WEBAC Brochure Sealing of Masonry**

Sealing of Masonry

Mixing

Mixing of component A

- The containers of component A are provided according to the required mixing ratio
- Empty the smaller container of component A2 completely into the larger container of component A1
- Mix both components via stirring while pouring until homogeneous

Mixing of component B

- Dissolve B-powder-concentrate in clean tap water in a clean plastic bucket by thoroughly stirring it with a stainless steel stirrer (by adapting the filling level of component B to that of component A it is easy to assess the required amount of water)

Application by 2C pump (stainless steel)

- Prepared components A and B are delivered at a mixing ratio of 1 : 1 from respective containers directly with a 2C pump (stainless steel)
- The components are mixed homogeneously in the mixing head

Application instruction

- Only use stainless steel, wooden or plastic 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 approx. 1% (referring to **component A**) of the blue color agent **WEBAC® F200** into **component A**
- The color intensity of the gel will decrease gradually

Application

- The injection pressure depends on the nature and condition of the 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

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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 with non-shrinking mortar
- Clean the injection pump and the equipment exclusively with water
- Gelled residues must be removed from the equipment mechanically immediately after use
- 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

Product data

Application		Injection by 2C pump (**WEBAC® IP 2K-F1**)		
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/m² at 50 cm wall thickness		
Packing		**Comp. A1** 25 kg	**Comp. A2** 1.6 kg	**Comp. B** 0.35 kg
		F200 1 kg		
Storage		• Between 5 °C / 41 °F and 25 °C / 77 °F • Protect from moisture and light • In original, sealed containers		
Compatibility/Resistance		• Resistant to diluted acids and salts damaging the structure • Resistant to alternating frost and thaw • Reacted gels are insoluble in water and fuels		

Test certificate

- Test certificate* according to KTW recommendations: D1 (large sealing of surfaces)

Occupational safety/waste disposal

Downloads on webac-grouts.com

webac-grouts.com/ downloads

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