Silicate Injection Grouts

WEBAC® 2061

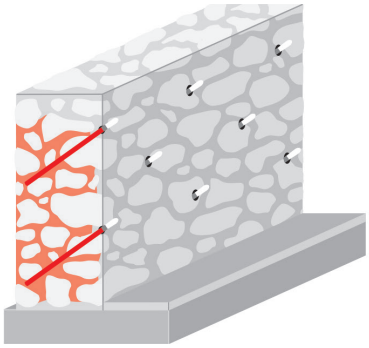
Range of application

- Filling, solidification and stabilization of non-binding to low binding types of soil
- Solidification of masonry and porous natural stone constructions

Properties

- Silicate-based injection solution
- Very low viscosity
- Water resistant
- Resistant to common soil minerals

Example



Solidification of masonry

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Technical Information

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Technical data

Technical data	Values		
Mixing ratio		10 : 1 parts by volume	
Density, 20 °C (DIN ISO 2811)	**Comp. A** **Comp. B**	≈ 1.3 g/cm³ ≈ 1.2 g/cm³	
Pot life (WEBAC test specification based on DIN ISO 9514)		**20 °C** ≈ 15 min (solidified after ≈ 25 min)	
Application temperature Building structure and material		> 10 °C	
Viscosity of mixture (WEBAC test specification based on DIN ISO 3219)		**23 °C** ≈ 20 mPa·s	**12 °C** ≈ 35 mPa·s
Compressive cylinder strength material-sand mix, 28 d		≈ 25 MPa (N/mm²)	
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

Structural analysis (masonry injection):

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

Structural analysis (soil stabilization):

- Soil examination according to DIN 4020
  - Soil survey
  - Soil condition
  - Ground water level
  - Flow behavior of the water

This results in:

- Planning of suitable remediation measures in accordance with the applicable rules and standards
- Selection of suitable material
- Selection of packers/lances
- Arrangement of the boreholes and placement of the packers/lances

Application instruction

- Injection by 1C pump
- The mixture must be used completely within pot life
- Only use pure WEBAC material without any residues of cleaning agents or other impurity

Mixing

- Empty component A and B at the given mixing ratio into a mixing vessel (make sure that the containers are completely empty) and mix homogenously
- Transfer mixed material in an new mixing vessel, stir well again and fill into the hopper of the pump
- In case of separation, stir briefly again

Application

Masonry stabilization

- Adapt the injection pressure to the nature and condition of the building structure
- Inject the material continuously from bottom to top, beginning at the lowest level
- Continue the injection until resin leaks out from the adjacent packers or a saturation of the masonry is visible

Soil stabilization

- The material is applied by injection with a 1C pump via drill holes/lances

Final work and cleaning

- Once the material has cured remove the packers
- Clean the drill holes and close with suitable non-shrinking mortar
- Cured material must be removed mechanically
- Rinse injection pump with water
- For detailed information refer to the operating manual of the injection pump

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Product data

	Comp. A	Comp. B
Delivery form	255 kg 25.75 kg	22.4 kg 2.27 kg
Storage	• Between 5 °C and 30 °C • Protected from moisture • In original, sealed containers	
Resistance	• Resistant to common chemical loads in building structures	

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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