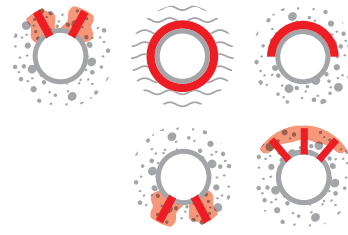


Silicate Injection Resins

WEBAC® *SILcompact M thix*



Range of Application

- Stabilization and sealing of tunnel systems and mining installations
 - Umbrella injection in direct TBM areas
 - Reinforcement ahead of the tunnel face and tunnel face stabilization
 - Solidification of karst and unconsolidated rock, gravel and crushed rock layers

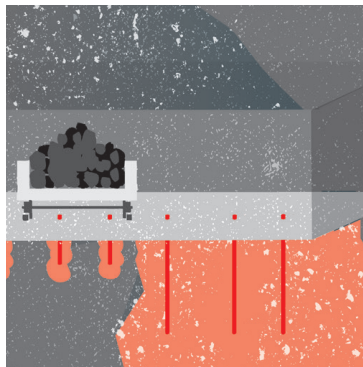
Properties

- Silicate-based injection resin
- Good flow properties at quick viscosity development
- Very fast strength development
- No foam formation even under water
- Low reaction temperature
- Suitable for cutting and planing

Test Certificates

- German Mining Approval (LOBA E 62.12.22.67-2013-1)
- Test certificate according to KTW recommendations: D1 (large-surface sealants)
- Test certificate according to KTW recommendations: C (equipment gear)
- Environmental Product Declaration (EPD)

Example



Anchor and rock mass stabilization

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Technical Information

All the data indicated in this technical data sheet and any related information provided by our employees are of an advisory nature representing our current state of knowledge and in no way binding. As the exact chemical, technical and physical conditions of the actual application are beyond WEBAC's control, this information does not preclude examination of the products and/or procedures for the intended application and surface by the user. WEBAC is thus unable to guarantee results. The user is fully responsible for the observation of existing regulations and conditions when using the products.
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Technical Data		Values		
Mixing ratio	1 : 1 parts by volume			
Density, 23 °C (DIN ISO 2811)	Comp. A Comp. B	≈ 1.45 g/cm³ ≈ 1.2 g/cm³		
Application temperature Building structure and material	> 15 °C			
Viscosity, 23 °C (DIN ISO 3219)	Comp. A Comp. B	≈ 400 mPa·s ≈ 390 mPa·s		
Reaction time Flow limit • Solid (at continuous flow)	10 °C 20 °C 30 °C	≈ 135 s • ≈ 7 min ≈ 95 s • ≈ 7 min ≈ 90 s • ≈ 5 min		
Compressive strength uniaxial, 30 min, 21 °C, at 10% compression (DIN EN 196-1)	≈ 24 MPa (N/mm²)			
Bending tensile strength, 30 min, 21 °C, at 10% compression (DIN EN 196-1)	≈ 20 MPa (N/mm²)			
Tensile strength, 7 d, 21 °C (DIN ISO 527)	≈ 7 MPa (N/mm²)			
Shore hardness D (DIN ISO 386)	30 min 24 h	10 °C ≈ 65/62 ≈ 70/65	20 °C ≈ 65/62 ≈ 70/65	30 °C ≈ 65/62
Heat development, 30 °C*	max. 108 °C			
Density, cured material (DIN ISO 2811)	≈ 1.25 g/cm³			
Ultimate strength, < 30 °C (based on DIN EN 196)	Bonding strength ≥ 2 MPa (N/mm²)			
Flashpoint (DIN ISO 2719)	Comp. A Comp. B	not determinable** ≈ 220 °C		
GISCODE	PU40			
EPD	EPD-FEI-20220021-IBG1-EN			
Exposure scenarios according to REACH	Assessment of industry standard application			

* free temperature development with 200 g of material

** The flashpoint is not determinable due to water vapor development.

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

- Check the injectability of the rock, subsoil or building structure
- Determine a remediation concept in accordance with the applicable rules and standards
- Carrying out a test injection if necessary

Application Instruction

- Injection by 2C pump
- We recommend storing the components at a minimum temperature of 15 °C for at least 12 hours prior to use to ensure optimum application performance
- Component A must be thoroughly stirred separately with a slow-running stirrer at max. 300 rpm (e.g. drill with paddle stirrer) before application or transfer
- Stir component A again and again during processing
- Protect components from moisture penetration (skin formation, pump-damaging precipitates, foam formation due to moisture)
- 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

Only use injection pumps for one type of material (silicate resin or polyurethane resin). When changing the material, the pump must be cleaned thoroughly and all material and cleaning agent must be removed entirely. For further information, please contact WEBAC.

WEBAC Quality Control recommends checking the product specification before processing products that have been stored for a longer period of time.

Mixing

- Components A and B are delivered at a mixing ratio of 1 : 1 from respective containers directly with a 2C pump, the components are mixed homogenously by a static mixer in the mixing head

Application

- Depending on application

We will be pleased to advise you.

Please contact us! Phone +49 40 670 57-0

Cleaning

- When interrupting work for a short period of time the mixing head can be cleaned with component A of the injection material
- When interrupting work for a longer period of time and after conclusion of the injection process it is necessary to rinse the hoses and the pistons of component A thoroughly with water, use **WEBAC. Cleaner A** for cleaning component B
- Observe the technical data sheet of the injection pump and cleaners used
- For detailed information refer to the operating manual of the injection pump

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Product Data		
Delivery form	Comp. A	Comp. B
	29 kg	23.5 kg
Storage	<ul style="list-style-type: none"> Between 5 °C and 30 °C Protected from moisture In original, sealed containers 	

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 "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-grouts.com and the safety data sheets.

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