

PU Injection Resins

WEBAC® PURseal M

- ▶ Fast curing, very high (early) strength PU resin which can also be modified into an extremely fast reacting rigid foam by using accelerators and additives – with German Mining Approval

Range of application

- Anchor bonding
- Subsoil and rock mass stabilization
 - Solidification of rock and stabilization of soil
 - Reinforcement of foundation
 - Ground consolidation of existing buildings
 - Lifting of concrete slabs
 - Slope stabilization
- Securing of foundation pits and tunnel systems
 - Quick stopping of flowing water and durable sealing
 - Stabilization and connection of tubings to rock mass
 - Waterproofing against pressing water in fractured rock and loose ground
 - Underground securing of retaining walls in road construction
 - Consolidation and sealing of flood protection systems, road and railway embankments
- Permanent sealing

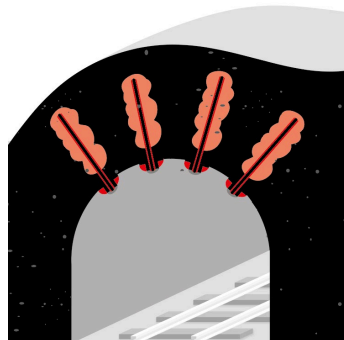
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Properties

- German Mining Approval (LOBA E 62.12.22.67-2013-1)
- Cures without water contact to form a pore-free, compact and high strength material
- Extremely fast development of high strengths
- Slight foam formation upon contact with water
- Reaction time and foaming activity adjustable (WEBAC® PURseal M ACC3 and WEBAC® PURseal M SF)

Example



Consolidation and sealing

Technische Information Technical Information

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Technical data	Values
Mixing ratio	1 : 1 parts by volume
Density 23 °C/73 °F (ISO 2811)	Comp. A ≈ 1.02 g/cm ³ Comp. B ≈ 1.23 g/cm ³
Viscosity, 23 °C/73 °F (ISO 3219)	Comp. A ≈ 280 mPa•s Comp. B ≈ 260 mPa•s
Reaction time Flow limit solid	23 °C/73 °C ≈ 80 s ≈ 100 s
Compressive strength uniaxial, 24 h, 21 °C/70 °F at 10 % compression (EN 196-1)	≈ 60 MPa (N/mm ²)
Bending tensile strength 24 h, 21 °C/70 °F, at 10 % compression (EN 196-1)	≈ 60 MPa (N/mm ²)
Tensile strength 7 d, 21 °C/70 °F (ISO 527)	≈ 30 MPa (N/mm ²)
Shore hardness D (ISO 868)	3 h ≈ 80/75 24 h ≈ 88/85
Heat development, 30 °C/86 °F ¹	max. 145 °C/293 °F
Density, cured material (ISO 2811)	≈ 1.09 g/cm ³
Ultimate strength, > 30 °C/86 °F (based on EN 196)	Bonding strength ≥ 10 MPa (N/mm ²)
Flashpoint (ISO 2719)	Comp. A > 160 °C/320 °F Comp. B > 200 °C/392 °F
GISCODE	PU40
EPD	EPD-DBC-20130014-IBG1-DE
Exposure scenarios according to REACH	Assessment of industry standard application

¹ free temperature development with 200 g of material

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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Mixing

Application by 2C pump

- Fill component A and B into the respective hoppers of **WEBAC IP 2K-F2** or process directly from the containers (**WEBAC IP 2K-40**)
- The components are mixed homogeneously in the mixing head



Application instruction

- We recommend storing the components at a minimum temperature of 15 °C/59 °F for at least 12 hours prior to use to ensure optimum application performance.
- 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.



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 both components with **WEBAC® Cleaner A**.
- For detailed information refer to the technical data sheet of the cleaner and the operating manual of the injection pump used.

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Product data							
Application	<ul style="list-style-type: none"> Injection with 2C pump (WEBAC® IP 2K-40, WEBAC® IP 2K-F2) Mixing tube, Ø 12 mm, l = 300 mm 						
Packing	<table border="0"> <tr> <td>Comp. A</td> <td>990 kg</td> <td>20.2 kg</td> </tr> <tr> <td>Comp. B</td> <td>1.200 kg</td> <td>24.8 kg</td> </tr> </table>	Comp. A	990 kg	20.2 kg	Comp. B	1.200 kg	24.8 kg
Comp. A	990 kg	20.2 kg					
Comp. B	1.200 kg	24.8 kg					
Storage	<ul style="list-style-type: none"> Between 5 °C/41 °F and 30 °C/86°F Protect from moisture In original, sealed containers 						



Test certificates

- German Mining Approval (LOBA E 62.12.22.67-2013-1)
- Test certificate (for drinking water) according to KTW recommendations (German Federal Health Gazette): B (repair system for containers)
- Test certificate (for drinking water) according to German Federal Environmental Agency: Repair system for 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 "Interseroh Dienstleistungs 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 "Information on the disposal and return of WEBAC packaging" in our product catalog or www.webac-grouts.com and the safety data sheets.

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