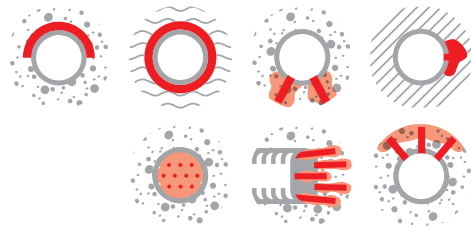


Hybrid Injection System WEBAC® HIS



Range of Application

- Stabilization of foundation pits and tunnel systems
 - Tunnel face consolidation and pre-injection, especially in front of TBMs, umbrella injection
 - Backfilling of annular gaps in tubings
 - Fast water stopping and sealing in case of water ingress (depending on cement type)
 - Stabilization of washed-out soil and disintegrated rock mass; default zones
- Ground stabilization
 - Slope stabilization
 - Stabilization of soil areas in earth- and damworks
- Filling of cavities and voids
 - Consolidation of karst and unconsolidated rock, gravel and crushed rock layers

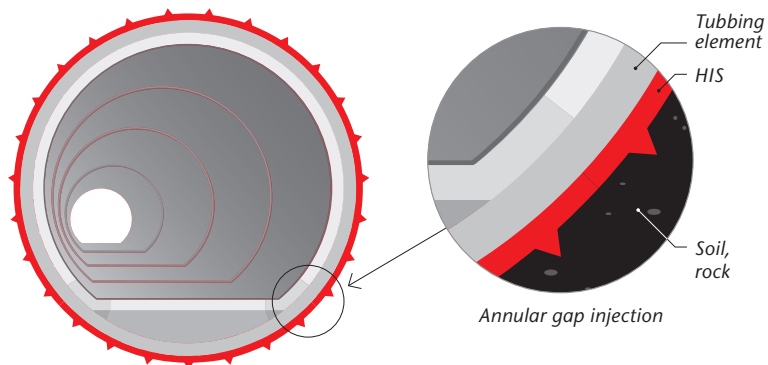
Properties

- Polyurethan-based injection system
- Reactive component for large-scale cement injections, adjustable to many types of cement
- Extremely economical
- Very fast strength development
- Aquatic and terrestrial environmental compatibility (column experiment)
- Additional fire load negligible with high cement content
- Cures even under water
- Suitable for cutting and planning

Test Certificates

- National Technical Approval
- Assessment and effects of construction products on soil and ground water according to DIBt code of practice
- Environmental Product Declaration (EPD)

Example



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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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Hybrid Injection System WEBAC® HIS

Technical Data

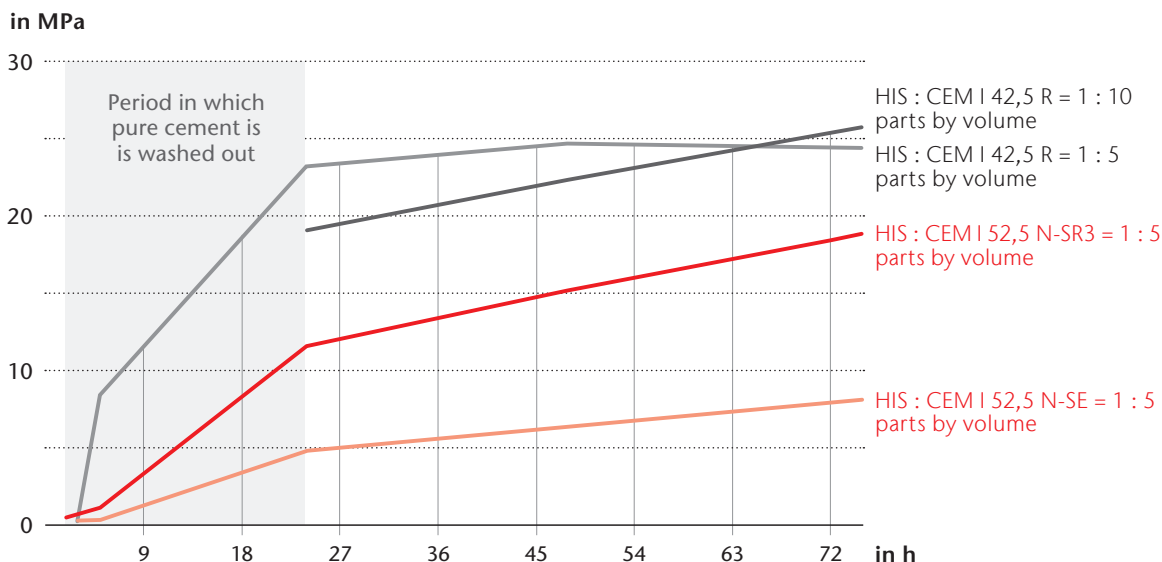
Values	
Mixing ratio	1 : 1 parts by volume; 1 : 5 to 1 : 10 (possibly up to 1 : 15) parts by volume with cement slurry; equals \approx 1 : 10 to 1 : 20 parts by weight
Density, 23 °C (DIN ISO 2811)	Comp. A \approx 1.0 g/cm ³ Comp. B \approx 1.2 g/cm ³
Viscosity, 23 °C (DIN ISO 3219)	Comp. A \approx 150 mPa·s Comp. B \approx 250 mPa·s
Bulk density (1 : 5 parts by volume)	\approx 1.7 kg/dm ³
GISCODE	PU40
EPD	EPD-FEI-20220021-IBG1-EN
Exposure scenarios according to REACH	Assessment of industry standard application

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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.

Early Compressive Strength of WEBAC® HIS with various cements over time



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Hybrid Injection System

WEBAC® HIS

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
- The premixed reactive component is homogeneously mixed in the desired mixing ratio of cement : reactive component using a mixing tube including static mixer
- Strength and especially the strength development are essentially influenced by the mixing energy and the mixing ratio
- Cement slurry can be adjusted with flow and dispersing agents

Mixing

- Components A and B are pumped by a 2C pump and premixed in a special mixing head

Application

- Depending on application

We will be pleased to advise you.

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

Cleaning

Reactive resin pump

- When interrupting work for a short period of time the mixing head of the 2C high-pressure injection pump for HIS system 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 clean the hoses and pistons of the 2C high-pressure injection pump with **WEBAC® Cleaner A**

Cement pump

- After completion of the work, empty the feed pump (piston or worm pump) and hoses (pump off) and flush them with water until clean, clear water emerges
- 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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Hybrid Injection System

WEBAC® HIS

Product Data		
Delivery form	Comp. A	Comp. B
	19.8 kg	24.8 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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