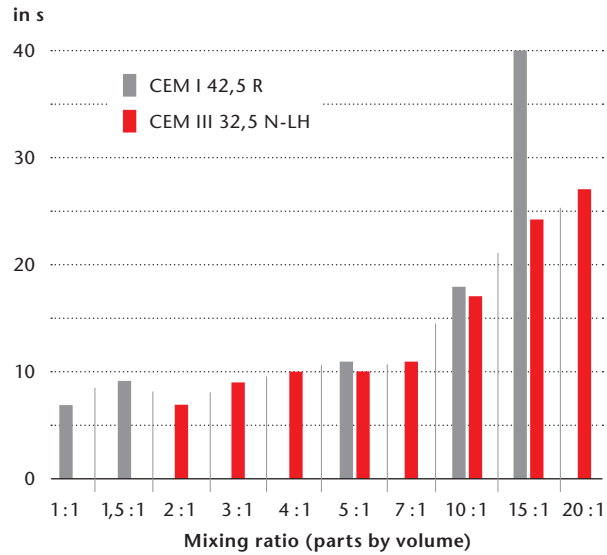


## Processing times

with CEM I 42.5 R and CEM III 32.5 N-LH  
at various mixing ratios

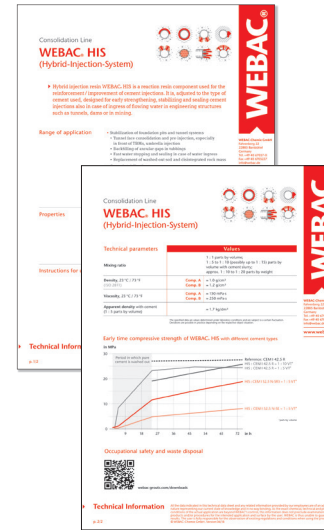


## Further information

The technical data sheet of our Hybrid-Injection-System can be found at any time in the **download area** at [webac-grouts.com](http://webac-grouts.com).



Here you will find the technical data sheets of all our products, all application brochures and WEBAC Newsletter.



# WEBAC®

## WEBAC® HIS

### Hybrid-Injection-System



Injection of WEBAC® HIS

Check back from  
time to time –  
do not miss any  
news!

[webac-grouts.com](http://webac-grouts.com)

# WEBAC®

## Our Formula – Your Solution

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## WEBAC® HIS

The positive properties of cement and PU in one system: this is **WEBAC® HIS**. With a lot of experience and know-how, we have succeeded in developing the WEBAC Hybrid Injection Resin.

WEBAC Hybrid Injection Resin is a reactive resin component to modify and improve cement injections.

Early strengthening, stabilizing and sealing cement injections are possible – even with the ingress of flowing water.

## Properties

- Reactive component for large-scale cement injections, adjustable to many types of cement
- Fast strength development
- Suitable for cutting and planing
- Aquatic and terrestrial environmental compatibility (column experiment)
- Economical
- Usable as primary and secondary grouting material

- Stabilization measures using anchor systems
- Filling of cavities and voids
  - Consolidation of karst and unconsolidated rock, gravel and crushed rock layers

## Advantages

- Combines the positive properties of cement and PU in one system (performance)
- Fast reaction time even underwater
- High early strength
- Material saving
- No uncontrolled flow off of cement suspension

**If required, HIS injection resin can be combined with accelerators or foaming agents from the WEBAC modular system. Feel free to contact us if you need advice!**



*Annular gap filled with WEBAC® HIS (cut open for illustration)*

## Range of application

- Filling of cavities and voids in tunneling
- Injection of annular gaps in segmental lining
- 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
  - Replacement of washed-out soil and disintegrated rock mass
- Ground stabilization
  - Slope stabilization
  - Stabilization of unstable soil areas in earth- and damworks

## Early compressive strength of WEBAC® HIS with different cement types over time

