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semper velox

# Rapid Construction Systems

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**RM 205**

Betoninstandsetzungs-Mörtel R4

Wasserbedarf:  
22 bis 25 l/m³; 2,75 bis 3,75 l pro 25 kg Gebinde

Anmischen:  
VELOST RM 205 mit 13-15% Trocharen; etwa 2,75 - 3,75 l je 25 kg  
Gebinde, anmischen. Dazu 13% Anmachwasser in ein sauberes  
Mörtelgefäß geben und das Pulver mit einem langstieligen  
Rührwerk (200-800 rpm) für eine homogene Masse rühren. Durch  
Zugabe von max. 4% Wasser kann die gewünschte  
Konsistenz eingestellt werden. Das Produkt ist für 90 min. bei 23°C  
verwendbar.

Grundierung:  
VELOST CP 305 auftragen bevor VELOST RM 205 appliziert wird.  
Detaillierte Verarbeitungshinweise entnehmen Sie bitte dem  
aktuellen technischen Datenblatt.



25 kg



RM 205  
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Slow is something  
of the past



## SEMPER VELOX\* with VELOSIT products

VELOSIT is an innovative start-up organisation.  
Our mission is to make construction faster, easier and less tedious.

VELOSIT is based on decades of experience in R&D, production and consulting for high performance construction materials which are fully conversant with modern construction techniques, all conducted in harmonious team working. Our global team combines the latest construction methods.

This experience behind VELOSIT has been utilised to design and formulate products based on state-of-the-art technologies approved for the construction industry. The novel VELOSIT Binder Formula is the “platform technology” for our cementitious mortars, waterproofing and self levelling product ranges.

A range that offers products, easily mixed & applied with good workability times, extremely rapid strength development with no shrinkage in addition to outstanding chemical, mechanical and water resisting properties, requiring minimal or no post-application curing.

The applied “platform technology” enables us to create products with very predictable and safe properties. Along side the cementitious waterproofing range we also offer polyurethane-based protective coatings which offer extraordinary physical properties.

Production started early January 2015 at the new facility located at the “Industriepark Lippe” and will be home to the all new technological innovations for the yet quicker and user-friendly products for tomorrow. VELOSIT GmbH & Co. KG is managed by its owners who believe in making distances closer, decision making faster and providing customers with their requirements. Not only are our products “fast”; you will also experience quick, precise and technical answers to your queries coupled with short delivery times and adequate after sales service.

# VELOSIT accelerates construction

We apply our state-of-the-art technologies to develop solutions that reduce construction and application times compared to current conventional construction methodologies.



We add value to our partners by addressing 3 factors:

1. Time, manpower & man-hour saving
2. Significant reduction in waiting times between applications
3. The ability to finish more projects in less time



**VELOSIT** systems allow completion of numerous subsequent applications in a significantly shorter time. Our systems are adjusted to avoid wait times between applications allowing uninterrupted continuous workflow. Our target is to help you complete any multi-step application in just one day.

## Application Fields:

- Water-retaining & water-excluding structures
- New construction and restoration of water tanks, sewage structures and manholes
- Levelling of residential & industrial concrete floors
- Civil engineering structures
- Above and below grade construction

# Waterproofing

Our systems provide safe protection against moisture with guaranteed versatile application and rapid strength development. Suitable for new construction, renovation and surface protection.



## VELOSIT WP 101

Rigid waterproofing slurry with fast strength development.

## VELOSIT WP 120

Ultimately flexible, cementitious waterproofing slurry with early submergibility.

## VELOSIT RM 202

Universal repair mortar for horizontal, vertical and overhead applications.

## VELOSIT DB 830

Joint tape range for internal sealing of construction/ expansion joints (120 & 200 mm wide).

## VELOSIT BD 161

1-Komponentige Bitumen-Dickbeschichtung

## VELOSIT CA 113

Crystalline & hydrophobic waterproofing concrete admixture.

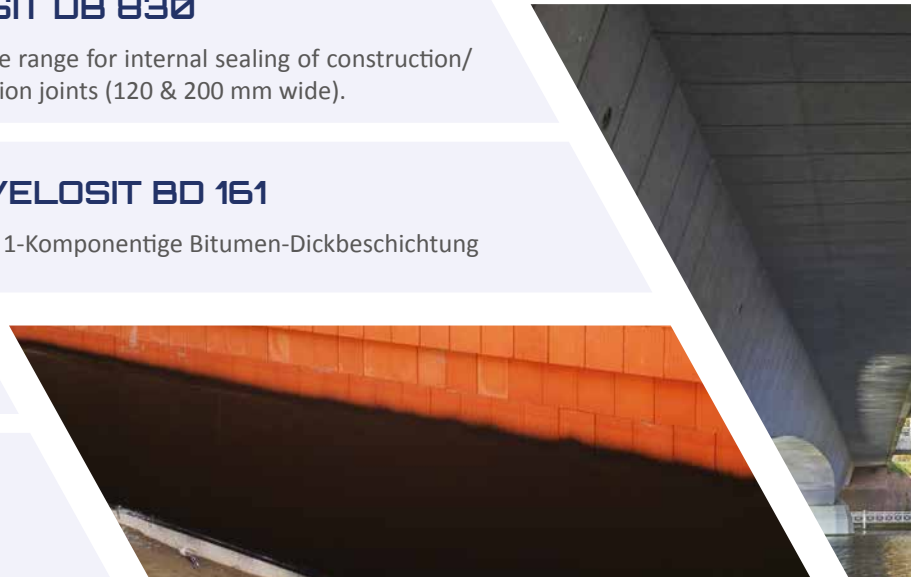
## VELOSIT WS 801

Swellable waterstop for construction joints (1000% volumetric swelling capacity).



Perfect, wide-range protection of structures

Watertight concrete



# Sewage restoration

VELOSIT polyurea systems allow significant reduction of application times on both horizontal, vertical and overhead surfaces.



## VELOSIT JF 421

Hybrid polyurea joint sealing material with extended gel time, easily applied from a cartridge system.

VELOSIT polyurea protects both concrete & steel substrates against mechanical abrasion and chemical influences providing long lasting corrosion protection.

## VELOSIT CP 201

Bonding bridge and corrosion protection with active corrosion inhibitor.

## VELOSIT NG 511

Dual shrinkage compensated grout for gaps between 6 & 50 mm and high 6-hour and final compressive exceeding 60 MPa.

VELOSIT polyureas are applied with heated dual component high pressure spray machines like the WIWA Duomix PU 460. The mixing of both material components happens in the spray gun at a pressure of 140-200 bar (2000-3000 psi) and a temperature between 70 and 80°C (160-180°F). For repairs and smaller applications hand-applied materials are available.

## VELOSIT RM 204

Concrete repair mortar for thicknesses of 1 to 50 mm and high 6-hour and final compressive exceeding >55 MPa, Class R4 - EN 1504-3.

## VELOSIT SR 206

Sulphate-resistant, structural repair mortar for thicknesses of 1 to 50 mm and high 6-hour and final compressive exceeding 55 MPa.

Our technical department can create and approve special system designs for your project!

## VELOSIT RM 205

Concrete repair mortar for thicknesses of 6 to 100 mm and high 6-hour and final compressive exceeding 50 MPa, Class R4: EN 1504-3.

## New standards in concrete restoration

## VELOSIT PR 303

Epoxy primer for damp substrates with high moisture levels.

VELOSIT mortars achieve compressive strengths higher than that of the host concrete only after one day and in most cases without the requirement for any post-application water curing.

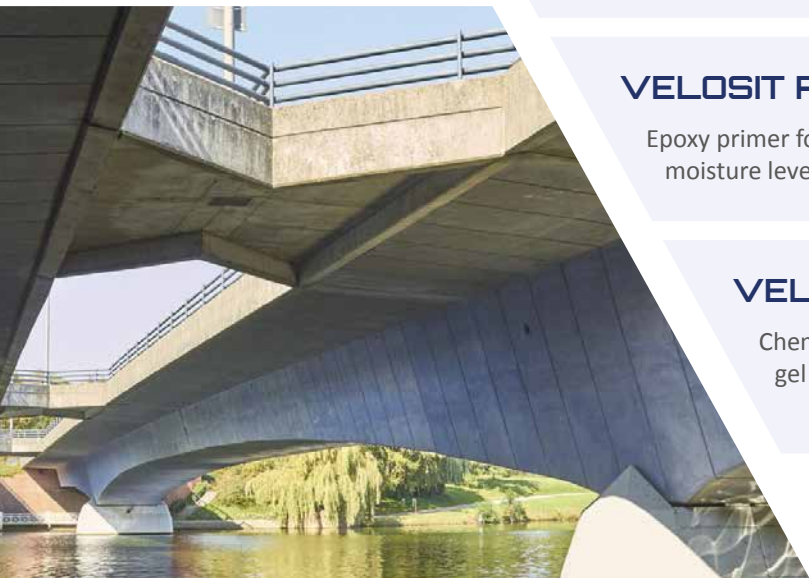
## VELOSIT WP 120

Ultimate flexibility cementitious waterproofing slurry.

## VELOSIT PU 403

Chemical resistant pure polyurea coating with short gel time and extraordinary mechanical properties.

Our bonding bridge contains a silane based active corrosion inhibitor which results in an exceptionally good passivation of the reinforcement.



# Screed-Systems

The preparation of substrates for various flooring materials can be solved in a very fast way using the **VELOSIT-System**.



## VELOSIT SC 244

Cementitious shrinkage compensated ready-to-use screed mix for the formulation of flowable screed mixes.

## VELOSIT SC 245

Cementitious binder for production of flowable screeds with screed sand.

## VELOSIT SC 241

Lightweight screed mix with 40% weight reduction compared to standard screeds. 25 MPa (3625 psi) after 24 h.

The cementitious screed binder VELOSIT SC 245 reduces the waiting time for flowable screeds from 4 weeks to a few hours. Just the following day residual moisture values reach a level that is suitable for the installation of most flooring materials.

Tiles can be installed just hours after finishing the screed. For smaller areas we offer the ready-to-use screed mix VELOSIT SC 244 which is formulated on the same basis. Sloped screeds can be designed using our semi-dry screed products VELOSIT SC 240 to 242.



# Self levelling underlayments and fairing mortars

VELOSIT systems supply especially fast solutions for the preparation of floors for various floor coverings.



## VELOSIT SL 502

Self levelling underlayment for thicknesses between 3 & 38 mm with final compressive strength exceeding 50 MPa.

## VELOSIT FF 220

Feather edge fairing coat for 0 to 10 mm thicknesses.

## VELOSIT PA 911

Acrylic primer.

## VELOSIT PR 303

Epoxy primer for substrates suffering high moisture levels.

## VELOSIT SL 503

Self levelling underlayment for thicknesses between 3 & 38 mm, coatable & vehicletrafficable after 6 hours with final compressive strength exceeding 60 MPa, Class R4; EN 1504-3. VELOSIT SL 503 provides an extremely smooth floor finish with good abrasion resistance.

Colored sealers may be used to create desired appearance!



## Cementitious commercial flooring

Reactive resin-based flooring systems are not always the best solution for commercial or industrial floors, especially when high application thicknesses are required to level off undulations or unevenness. Your ultimate economic and timely alternative to expensive epoxy resin underlayments..



# Systems for tomorrow

**velosit**

VELOSIT systems create significant advantages for the construction industry. We work on optimised solutions based on the latest technological advances. Try out these innovative systems and save time- it is worth it. Just give us a call!



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