



Smart Surface Solutions

Waterproofing and Damp Proofing Specialists

Velosit SL 503

Product Information Page

VELOSIT SL 503 is a shrinkage compensated cementitious self leveling wearing screed for concrete floors that creates an abrasion resistant smooth surface.

Velosit SL 503 may also be used as a high strength underlayment for coatings and floor coverings.

Specification Tip for Design Professionals:

VELOSIT SL503 may be specified by name or by using the following description: a propriety ready to use shrinkage compensated cementitious self leveling wearing screed that creates an abrasion resistant smooth surface.



Application Fields:

- ✓ Bonded Screeds
- ✓ Levelling of indoor or outdoor concrete slabs and floors as a finished surface.
- ✓ Repair of surface defects on concrete floors.

Benefits:

- ✓ Suitable for interior and exterior use
- ✓ Fast setting material
- ✓ Open to foot traffic after 3 hours
- ✓ Open to forklift traffic after 16 hours
- ✓ High flexural and compressive strengths
- ✓ High abrasion resistance.
- ✓ Excellent adhesion to substrate
- ✓ Smooth surface profile
- ✓ Water stable
- ✓ Good weather resistance
- ✓ Polishable

How does Velosit SL 503 work:

VELOSIT SL 503 binds the mixing water very fast producing a shrink compensated self-levelling screed, with very quick strength development allowing a very short waiting time before it becomes trafficable or covered with coatings or floor coverings

How do I prepare the surface before applying Velosit SL 503:

Concrete substrates must be sound, load bearing, clean, and free from all contaminants and bond breaking substances.

Concrete substrates should be prepared using sand blast, shot blast or high-pressure water system or other suitable systems.

Mixing Liquid:

The total mixing liquid requirement for Velosit SL 503 is between 5.3 and 5.51 litres of clean potable water per 25kg unit of product.

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How do I apply Velosit SL 503

Primer: The properly prepared concrete substrate should be primed using VELOSIT PA 911.

Substrates with high moisture levels should be primed with Velosit PR 303 please contact our Technical Department for further information.

Important: Door-threshold, gullies, steel frames etc. should be isolated with foam barrier strips. Large areas should be divided into bays.

Cracks in the substrate must be repaired.

Expansion Joints in the substrate should be allowed to follow through the installed Velosit SL 503 screed.



Mixing: Add the correct amount of clean potable water into a clean vessel, slowly add the Velosit SL 503 powder whilst mixing with a mixing paddle fitted to a slow speed drill until a lump-free mix is achieved.

Manual Application: The mixed material should be poured on the properly prepared primed floor and levelled with a rake to the required thickness. Work in sections that may be finished within 30 minutes of mixing the material.

A spiked-roller should be used to remove any trapped air in the placed material.

Velosit SL 503 should not be placed if the temperature is 6°C or below or is expected to fall below 6°C in the following 24 hours.

Note: Velosit SL 503 may be installed using suitable pumping equipment for further information please contact our Technical Department.

Volume yield: A 25kg VELOSIT SL 503 produces approximately 14.2 liters.

Curing: Care should be taken to prevent the placed material from drying out too quickly.

Cleaning: Equipment should be washed immediately with clean water.

How do I store Velosit SL 503: Velosit SL 503 should be stored in its original manufacturer's containers in dry conditions above 6°C and protected from frost.

Please protect the environment: Dispose of waste in accordance with the local authority regulations.

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TECHNICAL DATA:	
Appearance	Grey coloured powder
Application Temperature	>5°C
Adhesion to Concrete	Primed with PA911 : 2.6MPa
EN 13813	Class CT-C50-F7
Compressive Strength Flexural Strength	62MPa after 28 days 9MPa after 28 days
Density	1.6kg/l
Open time	30 minutes (depending on temperatures)
Setting time at 20°C	Beginning 50 minutes End 95 minutes (depending on temperatures)
Fire rating EN13501-1:	Class A1
Water demand :	21 -22% per unit.
Health & Safety	Please observe the actual valid material safety data sheet and follow the described safety measures for handling of the product. Protect eyes and prevent prolonged contact with skin. Keep out of reach of children. For further information please consult the product MSDS.
Thickness per layer (mm)	>3mm (minimum) to 38mm (may be extended with aggregate)
Consumption	1.8kg/m ² /mm
Shelf Life	12 months from manufacture date



Disclaimer:

The general information provided in the present technical description, application guidelines and other recommendations, is based on research and experience. However, the client is obliged to determine themselves what products are suitable for use. Accordingly, no liability will be accepted by IBC Limited t/a SURFASOLOGY™. For further information contact the SURFASOLOGY™ Technical Department.

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WHO WE ARE

SURFASOLOGY, formerly IBC Ltd., is Ireland's leading waterproofing and damp proofing specialist that has been proudly providing market leading, innovative, and sustainable construction solutions since 1976.

Our high-quality products and systems are accompanied by our professional technical support and a full installation service. **SURFASOLOGY** technical consultancy team have unrivalled experience in major construction projects, as well as solving everyday problems for homeowners, with long term trustworthy solutions.

Our products are all manufactured in ISO Quality System compliant facilities and meet the relevant local, National, & European standards. **SURFASOLOGY** network members manufacture products exclusively in Germany, Switzerland, Spain, Greece and the UK. We support these products in local markets with highly-qualified technical professionals, who understand both on-site demands and the design detail. We work in a collaborative way with our clients at all stages of the project to ensure that the correct design, preparation, and application are carried out to ensure a timely and successful outcome for all stakeholders.

Get in touch with us today!

**INNOVATIVE, WORLD-CLASS,
SUSTAINABLE CONSTRUCTION
SOLUTIONS, POWERED BY OUR
EXTENSIVE EXPERIENCE AND
EXPERTISE.**

AREAS OF EXPERTISE

Structural Waterproofing

Our world class solutions encompass the whole building envelope both above and below ground.

Damp Proofing & Remedial

A comprehensive range of first class damp proofing and timber treatment solutions.

Specialist Screeds & Coatings

High quality floor finish on domestic, commercial, under-floor heating or industrial projects.

Concrete Repair

We offer a highly efficient selection of products for the repair and protection of concrete elements.

WHAT WE DO

Material Supply

Reliable and sustainable surface solutions accompanied by unrivalled technical support.

Installation Service

Specialised installation service provided by our approved contractors delivering high quality workmanship you can trust.

Technical Support

Extensive experience and expertise in Project Design and Technical Support Services ensuring reliable outcomes for all our clients.

CPD Seminars

RIAI and RIBA approved CPD Seminars to specifiers on a variety of topics covering structural waterproofing and damp proofing.

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