

Velosit SL 502

Product Information Page

VELOSIT SL 502 is a shrinkage compensated cementitious self leveling underlayment with very quick strength development, specially formulated for use on concrete subbases.

It creates a very smooth surface for coatings and floor coverings.

VELOSIT SL 502 surpasses the requirements of EN 1504-3 class R3 for concrete repair (CR) and can be used according to the principles 3 and 7 acc. to EN.

Specification Tip for Design Professionals:

VELOSIT SL 502 may be specified by name or by using the following description: a propriety shrinkage compensated cementitious self leveling underlayment with very quick strength development.

How does Velosit SL 502 work:

VELOSIT SL 502 binds the mixing water very fast producing a self-levelling, shrinkage compensated underlayment, with very quick strength development allowing a very short waiting time before it can be covered.

How do I prepare the surface before applying Velosit SL 502:

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 502 is between 3.8 and 4 litres of clean potable water per 20kg unit of product.



Application Fields:

- ✓ Leveling of concrete slabs and floors
- ✓ Underlayment for ceramic tiles
- ✓ Cosmetic repair of surface defects on concrete floors
- ✓ Very smooth underlayment for surface coatings and floor coverings
- ✓ Structural repair of concrete

Benefits:

- ✓ Suitable for interior and exterior use
- ✓ Suitable for permanent water immersion
- ✓ Fast setting material
- ✓ Open to foot traffic after 3 hours
- ✓ High flexural and compressive strengths
- ✓ High wear resistance
- ✓ Can be placed in layers up to 38mm
- ✓ Excellent adhesion to concrete
- ✓ Ready for covering with ceramic tiles within 4 hours.
- ✓ Water stable

SURFASOLOGY

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How do I apply Velosit SL502:

Primer: The properly prepared concrete substrate should be primed using VELOSIT PA 911 (Acrylic Primer). The primed substrate is normally ready to receive the leveler usually after 2-3 hours curing.

Note: Where the substrate moisture levels are >4% or in case the moisture levels in the substrate are expected to increase, priming must be completed using VELOSIT PR 303.

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

Expansion Joints in the substrate should be allowed to follow through the installed Velosit SL 502 screed.

Mixing: Add the correct amount of clean potable water to a clean vessel, slowly add the Velosit SL 502 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 placed on the properly prepared primed floor to the required thickness within 15 minutes of mixing.

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

Velosit SL 502 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 502 may be installed using suitable pumping equipment for further information please contact our Technical Department.

Volume yield: A 20kg VELOSIT SL 502 produces approximately 13.0 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 502: Velosit SL 502 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.



TECHNICAL DATA:	
Appearance	Grey coloured powder
Application Temperature	>5°C
Adhesion to Concrete	Primed with PR 303: 1.8 MPa (261 psi) Primed with PA 911: 1.5 MPa (218 psi)
Requirement for repair products EN 1504-3 (Class R3)	Class R3 for concrete repair (CR)
Compressive Strength Flexural Strength	52 MPa after 28 days 8 MPa after 28 days
Density	1.6 kg/l
Open time	Initial set: 55 minutes Final set: 105 minutes (depending on temperatures)
Setting time at 20°C	Beginning 10 minutes End 25 minutes
Fire rating EN13501-1:	Class A1
Chloride ions: Carbonation resistance:	< 0.05% passed
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)	3 to 38mm
Consumption (including mixing water)	2.15kg/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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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.

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