



Smart Surface Solutions

Waterproofing and Damp Proofing Specialists

Velosit SL 506

Product Information Page

VELOSIT SL 506 is a shrinkage compensated cementitious self leveling underlayment with quick strength development, specially formulated for use on concrete subbases.

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

VELOSIT SL 506 meets the requirements of EN 13813 and is classified CT-C30-F5

Specification Tip for Design Professionals:

VELOSIT SL 506 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 506 work:

VELOSIT SL 506 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 506:

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 506 is between 4.8 and 5.2 litres of clean potable water per 20kg unit of product.



Application Fields:

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

Benefits:

- ✓ Suitable for interior and exterior use
- ✓ Fast setting material
- ✓ Open to foot traffic after 2-3 hours
- ✓ High flexural and compressive strengths
- ✓ Extremely smooth surface profile
- ✓ Can be placed in layers of 1mm up to 12mm
- ✓ Excellent adhesion to concrete
- ✓ Ready for covering with ceramic tiles within 4 hours.
- ✓ Water stable

SURFASOLOGY

E: info@surfalogy.com

T: 01 832 1005

W: surfalogy.ie



How do I apply Velosit SL 506:

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 506 screed.

Mixing: Add the correct amount of clean potable water to a clean vessel, slowly add the Velosit SL 506 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 30 minutes of mixing.

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

Velosit SL 506 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 506 may be installed using suitable pumping equipment for further information please contact our Technical Department.

Volume yield: A 20kg VELOSIT SL 506 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 506: Velosit SL 506 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 | >10°C |
| Adhesion to Concrete | Primed with PR 303: 1.3 MPa (261 psi) Primed with PA 911: 1.2 MPa (218 psi) |
| Requirement for repair products EN 1504-3 (Class R3) | Class R3 for concrete repair (CR) |
| Compressive Strength | >32MPa after 28 days |
| Density | 1.5 kg/l |
| Open time | 30 minutes |
| Setting time at 20°C | Beginning 60 minutes End 90 minutes |
| Fire rating EN13501-1: | Class A1 |
| Flexural Strength | 6MPa after 28 days |
| 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) | 1mm to 12mm |
| Consumption (including mixing water) | 1.53kg/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.

SURFASOLOGY

E: info@surfalogy.com

T: 01 832 1005

W: surfalogy.ie



SURFASOLOGY



Smart Surface Solutions

Waterproofing and Damp Proofing Specialists

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.

SURFASOLOGY

Unit 143, Grange Drive,
Baldoyle Industrial Estate,
Dublin 13, D13 W9V2,
Ireland

E: info@surfalogy.com

T: 01 832 1005

W: surfalogy.ie

