



Smart Surface Solutions

Waterproofing and Damp Proofing Specialists

Velosit SC 244

Product Information Page

VELOSIT SC 244 is a propriety ready to use, fiber-reinforced cementitious rapid hardening screed for use with under-floor heating, timber substrates, and de-coupled flooring systems

Velosit SC 244 is a shrink compensated formulation with a very quick strength development.

VELOSIT SC 244 surpasses the requirements of EN 13813 class CT-C50-F7.



Specification Tip for Design Professionals:

VELOSIT SC 244 may be specified by name or by using the following description: a propriety ready to use fiber-reinforced cementitious rapid hardening screed for use with under-floor heating, timber substrates, and de-coupled flooring systems.

How does Velosit SC 244 work:

VELOSIT SC 244 binds the mixing water very fast producing a shrink compensated flowable screed, 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 SC 244:

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.

Note: Velosit SC 244 may be used as an overlay screed on insulation boards, wooden substrates etc. Please contact our Technical Department for further information.

Mixing Liquid:

The total mixing liquid requirement for Velosit SC 244 is between 2.4 and 2.7 litres of clean potable water per 25kg unit of product.

Application Fields:

- ✓ Leveling of concrete slabs and floors
- ✓ Bonded Screeds
- ✓ Underfloor Heating Systems
- ✓ Insulation Boards
- ✓ Timber substrates

Benefits:

- ✓ Suitable for interior and exterior use
- ✓ Fast setting material
- ✓ Open to foot traffic after 4 hours
- ✓ High flexural and compressive strengths
- ✓ High wear resistance
- ✓ Excellent adhesion to substrate
- ✓ Ready for covering with ceramic tiles within 4 hours.
- ✓ Water stable

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How do I apply Velosit SC 244:

Primer: The properly prepared concrete substrate should be primed using VELOSIT CP 201.

Velosit SC 244 is applied to the tacky Velosit CP 201 primed substrate.

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 SC 244 screed.



Mixing: Add the correct amount of clean potable water into a clean free-fall mixer, 1-4 bags of Velosit SC 244 and mix for two minutes. Do not exceed 10.8L of clean potable water for 4 x25kg units of Velosit SC 244.

Small volumes may be mixed by adding the correct amount of clean water to a clean vessel, slowly add the Velosit SC 244 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 SC 244 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 SC 244 may be installed using suitable pumping equipment for further information please contact our Technical Department.

Volume yield: A 25kg VELOSIT SC 244 produces approximately 12L.

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 SC 244: Velosit SC 244 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 CP201 : 2.2MPa (309 psi)
EN 13813	Class CT-C50-F7
Compressive Strength Flexural Strength	51 MPa after 28 days 7 MPa after 28 days
Density	1.68 kg/l
Open time	Initial set: 55 minutes Final set: 105 minutes (depending on temperatures)
Setting time at 20°C	Beginning 90 minutes End 120 minutes
Fire rating EN13501-1:	Class A1 fl
Water demand :	9.5 -10.8%
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)	>12mm (minimum)
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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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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