

Cemtop SLU15

Cementitious Self-Leveling Underlay Screed at 5mm to 15mm

Description

Cemtop SLU15 is a non – structural preblended dry mortar, comprising of special cement, quartz, sand and performance polymers.

Cemtop SLU15 is a cementitious self-leveling surfacing system designed for laying in layers of 5mm. System is suitable for internal and external applications as underlayment only. The system can be laid upto 15mm in layers of 5mm each. It can be topped by Vinyl floor, epoxy,tiles, stones, etc. It is suitable for use across a wide range of environments, such as :

- Warehouses
- Light to medium engineering operations
- Car parks, Commercial spaces, Residential floors.

Product Brief

- Cemtop SLU15 is self leveling underlayment system
- Floor treatments requiring high tolerance subbase can be achieved with Cemtop SLU15. Floor is leveled to SRI class as per (BS8204)
- System is suitable as a underlayment for all types of floor coverings like Vinyl, resin toppings, tiles, wooden flooring, etc.

Usage

- Commercial, Institutional and Residential buildings for seamless durable finishes
- Retail stores, B2B stores in shopping malls. It gives the same finish as polished concrete grade slab installation in any greenfield retail or warehouse project
- Offers great flexibility while working with many stake holders on a project, as application time is quite short and polishing can be taken up after completion of other civil, interior works
- Easy to install, requires minimum tools and machines. Any flooring contractor can be guided to install the floor
- It is touch dry in 2-3 hours and walkable after 12 hours in well ventilated space. The floor is ready to accept full traffic after 48 hours

Technical Properties:

Appearance	Grey powder
Water-Powder	0.25
Compressive Strength	
7 days	>30N/mm ²
28 days	>35N/mm ²
Flexural Strength	
28 days	>7 N/mm ²
Adhesion Strength	
28 days	> 1.5 N/mm ²
Density	2350 Kgs/m ³
Water:Powder	0.25
Abrasion classification	
Abrasion class	AR 2 (as per BS 8204)

Note: 1.The typical physical properties given above are derived from testing in a controlled laboratory environment. Results derived from testing field-applied samples may vary, depending on actual site conditions.

It is advised to carry out a trial on site for atleast 2 sqm. to assess site conditions before proceeding with the complete project.

Advantages

- Rapid strength gain at lower thicknesses.
- Suitable for internal and external application.
- Simple installation - eliminates time consuming and labour intensive sand cement screeds.
- Stable - can be installed in large jointless areas. Easy to install, requires minimum tools and machines for installation of the floor.
- It requires only 48 hours for curing and hardening. The floor is ready to accept full traffic after 48 hours
- Economic - more cost effective than equivalent resin based systems.
- Can be used as an underlay for coverings such as carpets,vinyl, parquet or any resin floor toppings.

Mix and installation types

- Cemtop SLU15 to be mixed with treated water in recommended proportion.
- Paddle mixer can be used for mixing and pumping.
- Cemtop SLU15 can be easily leveled and floated with guide rakes. Use leveling guides for achieving proper levels due to self-leveling in nature.

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Sub-base Requirements:

1. Proper surface preparation is key to the performance of product. The surface should be free of oil, grease, paint, curing compound and other contaminants. Finished base concrete surface or damaged surface should be closely hacked or preferably roughened with mechanical scabbler/scarifier to form a rough, sound surface (CSP 3-5).
2. All the loose materials to be removed and cleaned with high pressure water jetting and removing all excess water to make base surface in semi-dry condition alternatively dry vacuum cleaning to remove loose cement particles.

Surface preparation

New concrete floors

These should normally have been placed for at least 21 days. Floors should be sound and free from contamination such as oil and grease, mortar and paint splashes or curing compound residues. Excessive laitance can be removed by light mechanical scabbling, grinding or grit blasting followed by thorough washing with clean water, vacuum cleaning and allowing the surface to dry. Light laitance can be removed by grinding or blasting followed by vacuum cleaning to remove dust debris.

Light oil and grease staining can be removed with degreasers followed by washing with clean water.

Old concrete floors

Where deep seated contamination has occurred, mechanical methods such as blasting, grinding or scabbling should be used to provide a suitable clean surface.

Any necessary repairs should be carried out using Renderoc HSXtra or Renderoc FC.

Priming

The substrate should be thoroughly prepared as detailed above.

The substrate should be presoaked with clean water for 4 hours immediately prior to application of Nitoflor Cemprime 1. Before proceeding with the application of Nitoflor Cemprime 1, the surface should be in a saturated surface dry condition, with no free standing water.

The objective of priming the substrate is to 'seal' it, and thereby prevent release of air, rising from the substrate, and thus forming bubbles or pinholes in the surface of the Cemtop SLU15. If surface is porous it may be advisable to apply second coat of Nitoflor Cemprime 1.

The substrate must be primed using Nitoflor Cemprime 1 (without any dilution) and allowed to reach tack - free state. The primer should be brushed into the floor by broom. Spray or roller application is not recommended as insufficient material will be applied.

Mixing Guide

- Cemtop SLU15 should be mixed in forced action in pan or dum mixer. For smaller batches drill machine operated paddle mixer with maximum rpm of 900 to be used.
- Always add powder to liquid component. Take 2.7 Lit of treated water in bucket/mixing drum and add 15 Kg Cemtop SLU15 2.75 powder to it gradually.

Ensure all the powder on sides and bottom of bucket / drum is mixed uniformly. Hold the mix for 1 min and once again agitate the mix with paddle mixer to get flowable mix.

INSTALLATION GUIDE:

- Use guides/ side forms of height to match desired FFL (finished floor level).
- Pour mixed material in between forms, spread and level with guide rakes and float to inaccessible areas, corners, edges with hand tools.
- Spiked roller is not required but can be used at local spots is air bubbles are observed.
- Moist curing for maximum 24 Hours.

Curing / Finishing

Cemtop SLU15 does not require curing.

Limitations

- For temperatures above 35 C refer to "Hot Weather Working".
- Prevent freezing of Cemtop SLU15 for 48 hrs from placement.
- Cemtop SLU15 should not be applied to asphalt substrates. If the substrate on to which Cemtop SLU15 is applied moves or cracks, reflective cracking may occur.
- Only suitable for use out of direct sunlight and /or drying winds during application and initial curing period.
- Cemtop SLU15 is not suitable for any type of densification & polishing.

YEILD:

Cemtop SLU15 is supplied in 15 kgs bag. 15 kg of Cemtop SLU15 & 2.7 kg of treated water yields 0.009 cum of volume.

Material consumption will be 8.75 kgs/m²/5mm thickness.

Example- 10mm thick floor will require 17.50 kgs per m².

For thickness exceeding 15mm add 8mm down clean, dry aggregates in 2:1 proportion by weight. 2 parts Cemtop SLU15 & 1 part aggregates. Higher abrasion resistant aggregates will give better results.

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Consumption

Thickness	Cemtop SLU15 – Powder Only
5 mm	8.75 (kg / sqm)
10 mm	17.50 (kg / sqm)
15 mm	26.25 (kg / sqm)

Storage

Shelf life

Cemtop SLU15 has a shelf life of 6 months and Nitoflor Cemprime 1 has a shelf life of 12 months, when stored in warehouse conditions below 20°C in the original, unopened packs.

Precautions

Health and safety

Cemtop SLU15 contains certain powders which, when mixed with water or become damp, release alkalis which can be harmful to the skin.

During use, avoid inhalation of the dust and contact with the skin or eyes. Wear suitable protective clothing - eye protection gloves and respiratory equipment (particularly in confined spaces). The use of barrier creams to provide additional skin

protection is also advised. In case of contact with the skin, rinse with plenty of clean water, then cleanse thoroughly with soap and water.

In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting



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