

# Cemtop OUL15

## 5mm to 15mm Heavy Duty Screed for Thin Underlay and Overlay

### Description

Cemtop OUL15 is a single component pre-blended dry mortar comprising of Cement, Graded high strength aggregates and performance polymers which needs only potable water addition.

Cemtop OUL15 is applied as a 5 to 15 mm thick onto new or existing base concrete surface.

It is available in two types:

- Internal use for any type of Industry
- External use subject to UV radiation and areas which are continuously wet.

Cemtop OUL15 is impact and wear resistant floor refurbishment system. Finished surface is similar to power troweled concrete surface but with higher wear resistance. It can be laid in proper levels.

### Advantages

- Engineered to suit varied site conditions
- Usable for Internal and external working conditions
- Large areas can be installed in single day
- Easy to install, requires minimum tools and machines any flooring contractor can be guided to install the floor
- It requires only 48 hours for curing and hardening. The floor is ready to accept full traffic after 48 hours
- It can be used as final finished surface or can be over coated

Consult Fosroc Technical representative for recommendation on the correct primer and surface preparation.

### Usage

- All types of industries for floor thicknesses ranging from 5mm to 15mm, both for new floors or resurfacing.
- Finished surface is similar like power trowelled concrete surface but with higher wear resistance.
- It can be laid in proper levels even if the substrate floor is uneven or undulated.
- Overcoating with resin flooring systems.

## Technical properties

<b>Appearance</b>	Grey cementitious powder
<b>Compressive Strength</b>	
7 days	>30 N/mm <sup>2</sup>
28 days	>35N/mm <sup>2</sup>
<b>Flexural Strength</b>	
2 days	>3 N/mm <sup>2</sup>
28 days	>7 N/mm <sup>2</sup>
<b>Adhesion Strength</b>	
28 days	> 1.5 N/mm <sup>2</sup>
Density	2180 Kgs/m <sup>3</sup>
Abrasion classification	
Abrasion class	AR 2(as per BS 8204)
Water:Powder	0.13 - 0.14

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 sq.m. to access site conditions before proceeding with the complete project.

### Storage

- Cemtop OUL15 is supplied in 25 kgs HDPE bags with LDPE lining. It should be stored in unopened bags in clean dry conditions. Storage temperatures should in the range of 5°C to 40°C

### Mixing Instructions

- Cemtop OUL15 should be mixed in forced action pan or drum mixer. For smaller batches paddle mixer or mixing station with maximum rpm of 900 to be used
- Always add powder in water. Take 3.25 lit. of water in an empty container and gradually add 25 kgs of Cemtop OUL15 powder and stir to get mix of desired consistency. Mix will have slump equivalent to concrete slump range of 60 to 80. Additional water upto 0.2 lit can be added to get desired trowelable consistency

### Installation Guide

- Cemtop OUL15 should be laid over properly scarified, primed using Nitoflor Cemprime 1 surface to ensure proper bond between base concrete and screed.

# Cemtop OUL15

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- Use guides/ side forms of height to match desired FFL (finished floor level). Pour mixed material in between forms, spread and level with single beam vibrator/vibratory bull float. Leveling to be done with floats, bump cutters, etc. Ensure proper edge troweling, floating with power trowel to achieve desired finish.

- Moist curing by sprinkling water for 1-2 days. No standing water.

## Instructions for use

### Surface preparation

#### New concrete floors

Concrete floors to receive the treatment should be at least 21 days old.

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 mechanical grinding, scarifying 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. Weak top surface can be milled till sound concrete surface is exposed.

#### 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 HS Xtra.

### 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 OUL15.

Additionally it aids adhesion between the two surfaces.

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

When the first coat of the primer is touch dry, a second coat of Nitoflor Cemprime 1 should be applied to the substrate in the similar manner. For highly porous substrates, a third coat of the primer may be applied with Nitoflor Cemprime 1.

Ponding of primer must be avoided as this can lead to failure at the bond line.

### Curing / Finishing

In normal conditions, Cemtop OUL15 does not require curing, but in harsh climatic conditions of direct sunlight, drying winds etc., freshly hardened surfaces should be covered completely with a polythene sheet for 2 days.

Grinding offers a softer and silkier effect and increases the effects of texture.

### Coating

In areas that are subject to regular water immersion or chemical attack from acids or organic solvent, it will be appropriate to protect Cemtop OUL15 with an epoxy floor coating such as Nitoflor FC140.

### Maintenance

Where Cemtop OUL15 has not been overcoated, it may be cleaned with a proprietary rotary scrubbing machine. It should not be cleaned with strong alkaline based cleaning agents.

If Cemtop OUL15 has been overcoated with any of the Nitoflor range of resin floor coatings, contact your local Fosroc office for cleaning procedures.

### Hot weather working

It is suggested that, for temperatures above 35°C, the following guidelines are adopted as good working practice:

(i) Store unmixed materials in a cool (preferably temperature controlled) environment, avoiding exposure to direct sunlight.

(ii) Keep equipment cool, arranging shade protection if necessary. It is especially important to keep cool those surfaces of the equipment which will come into direct contact with the material itself.

# Cemtop OUL15

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## Yield

Cemtop OUL15 is supplied in 25kg. 25 kg yields 0.011-0.0115 cum of volume or 2.25 kgs per m<sup>2</sup> per 1mm thickness. Example- 10mm thick floor will require 22.50 kgs per m<sup>2</sup>.

## Consumption

Thickness (mm)	Cemtop OUL15 (kg/sqm) Powder
5	11.25
10	22.50
15	35.75

## Joints

Forming grooves to match joints of base or forming panels of maximum 25 m<sup>2</sup>. Aspect ratio of panels not to exceed 1.2.

## Health & Safety

Full health and safety information can be supplied on request.

The unmixed powder is irritant as is any cement product and direct skin contact should be avoided



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