

# PUMPABLE FLOORING SYSTEM FOR COMMERCIAL AND INDUSTRIAL USE

## PRODUCT DESCRIPTION

CEM TOP 340 is a pumpable self-smoothing screed formulated from High Alumina Cement. It is a pre-blended dry powder, designed for use in commercial and industrial buildings. CEMTOP 340 can be used as an industrial top layer.

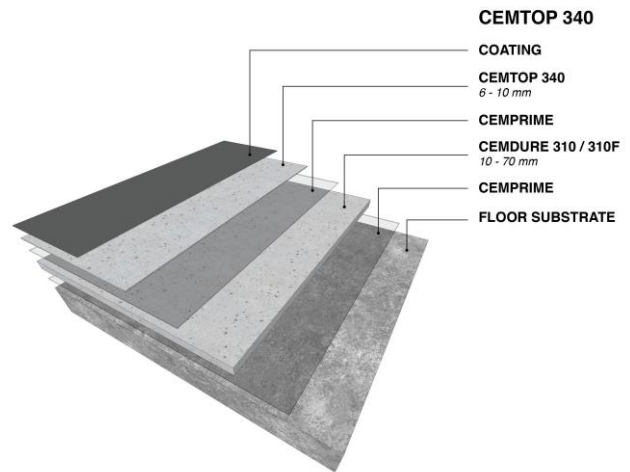
## APPLICATIONS

CEM TOP 340 is designed for use as a top layer of concrete subfloor in commercial and industrial buildings.

## USER GUIDE

CEM TOP 340 can be applied with an automatic continuous mixer pump (without mortar hopper). Immediately after the drying of the surface it can be painted with a well-designed paint for industrial floor applications. The normal layer thickness is between 6 and 10 mm, but the material can be laid up to 30 mm in one operation. Under normal conditions foot-step traffic onto the floor is possible after 1-2 hours and the final heavy loading after 1 week depending on conditions on site.

## LAYER BUILD-UP



## TECHNICAL DATA

Water content 18% - 50% RH – temperature of 20°C during processing

Flexural Strength	8 N/mm <sup>2</sup> after 28 days. Ultimate strength 10 N/mm <sup>2</sup>
Compressive Strength	37 N/mm <sup>2</sup> after 28 days. Ultimate strength > 40 N/mm <sup>2</sup>
Adhesion to subfloor	> 2 N/mm <sup>2</sup>
VOC-value	free from ammonia and formaldehyde
Particle size	max. 1 mm
Free shrinkage	< 0,55‰ (measured at 50% RH)
pH-value	approx. 11,5
Flowability (Flow ring test SS 923519 (diam.50x23mm))	150 - 155 mm
Water stability	water stable (expansion under water < free shrinkage)
Material consumption	approx. 1,75 kg per mm thickness/m <sup>2</sup>

## PROCESSING DATA

Water admixture	18% (4,5 litre/25 kg bag)
Min. floor temperature	+6 °C
Dry powder density	approx. 1,6 g/cm <sup>3</sup>
Wet density	> 2 g/cm <sup>3</sup>
Open time	approx. 15 minutes depending on temperature
Curing time	1-2 hours for foot traffic 24 hours for light traffic 1 week for full loading
Storage	6 months in dry conditions, max. 20°C and 50% RH

## SUBFLOOR

CEM TOP 340 should be laid on a well-prepared subfloor.

## PREPARATION OF THE SUBFLOOR

The surface to be treated must be hard, sound and free from surface contamination, all dust should be vacuumed from the surface.

Concrete laitance and old coatings should be removed mechanically e.g. by shot blasting, scabbling or scarifying. Concrete contaminated by oil or grease may require flame gunning and/or treatment with a proper degreaser.

Apply CEMPRIME AC on the subfloor.

## MIXING

CEM TOP 340 can be mixed in an automatic continuous mixer pump (without mortar hopper). Use only clean potable water with a max. temperature of +20°C at a rate of 4,5 litre per 25 kg bag. The mixed material should be used within 15 minutes.

## CLEANING

All tools and equipment should be cleaned promptly with water.

## APPLICATION

Door threshold, stairs, drains and gullies should be isolated with foam barrier strips. Larger areas should be divided into bays. Normal width of the bay is 8 -12 meters, depending on the pump capacity.

## HEALTH AND SAFETY



Contains quartz and cement, cement moist is corrosive. Protect eyes and prevent prolonged skin contact, keep out of reach of children. For further information refer to the safety data sheet of CEMTOP 340.

**Transport:** Not a classified product.

## GENERAL

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 himself whether the products are suitable for use. The characteristics given here are average values, obtained at 20°C and 50% RH, and were drawn up according to the current state of technology. As of publication, the present technical descriptions will replace all previous ones.

Please take into account different local conditions such as ventilation, floor temperature and humidity.

Do not process at temperatures below +5° C.

High humidity and low temperatures slow down the constriction and the curing.

Do not add other products!

Consult our web site [www.cemart.eu](http://www.cemart.eu) to download the latest version of our technical data sheet.



Cemart NV, Maatheide 76E, B-3920 Lommel



### EN 13813 CT-C40-F7 - Cementitious screed

Reaction to fire	A2 <sub>FL</sub> -S1	Wear resistance	AR6
Release of corrosive substances	CT	Sound insulation	NPD
Water permeability	NPD	Sound absorption	NPD
Water vapour permeability	NPD	Thermal resistance	NPD
Compressive strength	C40	Chemical resistance	NPD
Flexural strength	F7		

NPD = No Performance determined