

## PUMPABLE FLOORING SYSTEM FOR HEAVY FORKLIFT TRAFFIC

### PRODUCT DESCRIPTION

CEM TOP 350 is a pumpable, self-smoothing floor product with a very low shrink during hardening. CEMTOP 350 is based on high alumina cement. It is a pre-blended dry powder, which can be used as a smooth top layer for intensive forklift traffic.

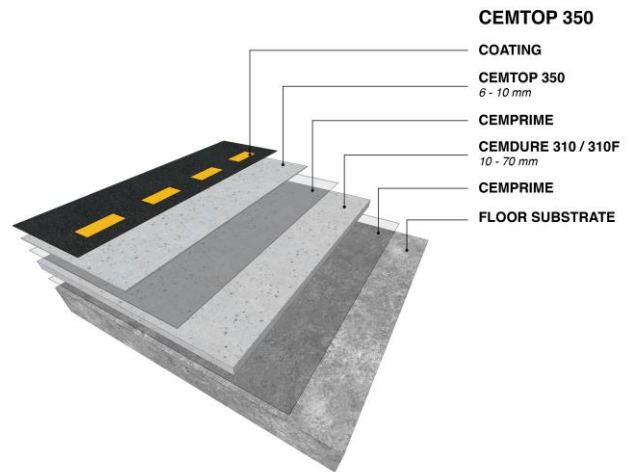
### APPLICATIONS

CEM TOP 350 is designed for use in industrial building like storage room, warehouse offices, and areas with intensive forklift traffic etc. Immediately after the drying of the surface it can be painted with a well-designed paint for industrial floor applications.

### USER GUIDE

CEM TOP 350 can be applied with an automatic continuous mixer pump (without mortar hopper). CEMTOP 350 is recommended in application at a thickness of 6 - 10 mm in one operation. The maximum thickness is 30 mm. When heavy loadings are expected on the floor, do not make the layer thinner than 4 mm. The flowability of the material is very good and gives a smooth surface ready for carpeting. Falls to water outlet may be maintained by use of reduced amount of water and then pumping from higher to lower end. The semi-hardened material may easily be formed or cut allowing any necessary adjustments to be made. 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	11 N/mm <sup>2</sup> after 28 days.
Compressive Strength	40 N/mm <sup>2</sup> after 28 days. Ultimate strength > 45 N/mm <sup>2</sup>
Adhesion to subfloor	> 3 N/mm <sup>2</sup>
VOC-value	free from ammonia and formaldehyde
Particle size	max. 1 mm
Free shrinkage	< 0,5‰ (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>
Rolling Wheel Test (EN13892-5)	Excellent. No measurable abrasion according to the Swedish norm SS-137241, reduction of the surface profile

### 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 350 should be laid on a well-prepared subfloor. The subfloor surface tensile strength must be higher than 1,5 N/mm<sup>2</sup>.

## PREPARATION OF THE SUBFLOOR

The subfloor surface tensile strength must be higher than 1,5 N/mm<sup>2</sup>. The subfloor must be hard, solid, and free from contamination and delaminating. Dust must be vacuumed from the surface. Concrete laitance and old coatings should be removed mechanically e.g. by enclosed shot blasting, scabbling or scarifying. Concrete contaminated by oil or grease may require flame gunning and/or treatment with a proper degreaser. An accurately prepared subfloor should be primed with CEMPRIME AC.

## MIXING

CEM TOP 350 can be mixed in an automatic continuous mixer pump (without mortar hopper). Only use 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 350.

**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	A12
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