

VERY HEAVY DUTY POMPABLE FLOOR SYSTEM FOR USE IN INDUSTRY AND AGRICULTURE

PRODUCT DESCRIPTION

CEMTOP 360 is a pumpable screed formulated from High Alumina Cement and extremely hard aggregates. It is a pre blended dry powder, designed for heavy loaded industrial floors and for floors in agricultural buildings, can also be used outside. CEMTOP 360 resist attack from salt and chemicals better than normal concrete.

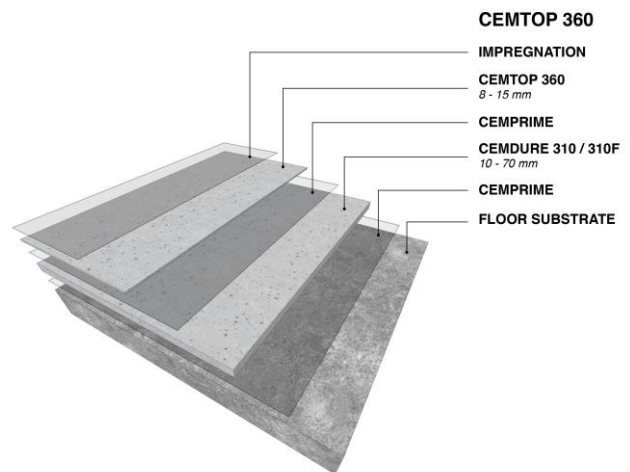
APPLICATIONS

CEMTOP 360 is designed for floor renovations in agricultural and industrial buildings, for loading docks, etc. It can be painted with a well-designed paint for industrial floor applications directly after the surface dried out. CEMTOP 360 can be applied with an automatic continuous mixer pump. When using an automatic mixer pump, do not make the bays wider than 10 meter.

USER GUIDE

Normal thickness between 8 and 15 mm in one operation, but the material can be laid to 25 mm in one operation. If heavy traffic is expected, never make thinner layers than 10 mm. For the renovation of slopes, use less water and maintain it by pumping from the higher to the lower end. The semi-hardened material may be easily formed or cut allowing any necessary adjustments to be made. Once hardened, the material is very hard and almost impossible to grind. Under normal conditions footstep traffic onto the floor is possible after 1-2 hours and the normal loading after 3-7 days depending on local conditions.

LAYER BUILD-UP



TECHNICAL DATA

Water content 14% - 50% RH – temperature of 20°C during processing

Flexural Strength	> 10 N/mm ² after 28 days.
Compressive Strength	40 N/mm ² after 28 days. Ultimate strength > 50 N/mm ²
Adhesion to subfloor	> 3 N/mm ²
VOC-value	free from ammonia and formaldehyde
Particle size	max. 3 mm
Free shrinkage	< 0,65‰ (measured at 50% RH)
pH-value	approx. 11,5
Flowability (Flow ring test SS 923519 (diam.50x23mm))	135 - 140 mm
Water stability	water stable (expansion under water < free shrinkage)
Material consumption	approx. 1,9 kg per mm thickness/m ²

PROCESSING DATA

Water admixture	14% (3,5 litre/25 kg bag)
Min. floor temperature	+6 °C
Dry powder density	approx. 1,8 g/cm ³
Wet density	> 2,1 – 2,2 g/cm ³
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	10 months in dry conditions, max. 20°C and 50% RH

SUBFLOOR

CEM TOP 360 should be laid on a well-prepared and primed subfloor. If heavy traffic expects on the surface, make sure that the adhesion to subfloor is more than 1,5 N/mm².

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 enclosed shot blasting, scrubbing or scarification. Concrete contaminated by oil or grease may require flame gunning and/or treatment with a proper degreaser. Always check the substrate with a "pull off-test" to make sure that it can be used as a subfloor for heavy industrial use. After preparation the subfloor shall be primed with CEMPRIME AC to ensure the adhesion to subfloor.

MIXING

CEM TOP 360 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 3,5 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 360.

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 to download the latest version of our technical data sheet.



Cemart NV, Maatheide 76E, B-3920 Lommel



EN 13813 CT-C50-F10 - Cementitious screed

Reaction to fire	A2 _{FL} -S1	Wear resistance	A9
Release of corrosive substances	CT	Sound insulation	NPD
Water permeability	NPD	Sound absorption	NPD
Water vapour permeability	NPD	Thermal resistance	NPD
Compressive strength	C50	Chemical resistance	NPD
Flexural strength	F10		

NPD = No Performance determined