

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

**PRODUCT DESCRIPTION**

CEM TOP 360 is a pumpable screed formulated from High Alumina Cement, extremely hard aggregates, supplementary binders and chemical admixtures. It is a pre blended dry powder, designed for heavy loaded industrial floors and for floors in agricultural buildings. CEM TOP 360 resist attack from salt and chemicals better than normal concrete. The hard aggregate makes the product resist scratch attack from metal grain.

**APPLICATIONS**

CEM TOP 360 is designed for floor renovations in agricultural and industrial buildings. It can be painted with a well-designed paint for industrial floor applications directly after the surface dried out. CEM TOP 360 can be applied with an automatic continuous mixer pump (without mortar hopper). Normal thickness between 8 and 15 mm in one operation. When using an automatic mixer pump, do not make the bays wider than 10 meter. 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.

**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/mm<sup>2</sup>. Dust, laitance, grease or other weak materials such as asphalt must be removed. Normal thickness is 8 - 15 mm, 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.

**TECHNICAL DATA**

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

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

**PROCESSING DATA**

<b>Water admixture:</b>	14 % (3,5 litre / 25 kg bag)
<b>Min floor temperature:</b>	+6°C
<b>Dry powder Density:</b>	approx. 1,8 g /cm <sup>3</sup>
<b>Wet density:</b>	> 2,1 -2,2 g / cm <sup>3</sup>
<b>Open time:</b>	approx. 15 minutes depending on temperature
<b>Curing time:</b>	1 - 2 hours for foot traffic 24 hours for light traffic 7 days for full loading
<b>Storage:</b>	6 months in dry conditions.

**PERFORMANCE****Preparations of 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 acrylic primer 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 -10 metres, depending on the pump capacity.

**Health and safety:**

Hazardous - contains cement, cement moist is corrosive. Protect eyes and prevent prolonged skin contact, keep out of reach of children. For further information refer to Health and Safety data sheet.

**LABELLING****Health and safety:**

Hazardous, contains cement, quarts sand and alumina oxide.

**Transportation:** 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 any other products.