

## CEMTOP 360 – Heavy Duty Wearing TOP Self Levelling Screed

CEMTOP 360 is a pumpable screed formulated from High Alumina Cement, extremely hard aggregates, supplementary binders and chemical admixtures. It's a pre-blended dry powder, designed for heavy loaded industrial floors and for floors in agricultural buildings. CEMTOP 360 resists against attack from salt and chemicals to a greater degree than normal concrete. The hard aggregate makes the product resist scratch attack from metal grain. Normal thickness is between 8 and 15 mm in one operation. Under normal conditions footstep traffic onto the floor is possible after 1-2 hours with final heavy loading after 3-7 days, depending on site conditions.

- Wearing Screed
- Pumpable 5 – 15mm
- Early Trafficking
- Hand & Pump Application
- Reduced Drying Times

### Field Of Application

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

### Working Instructions

Light ventilation in the working area is necessary, however windows and door openings must be closed sufficiently to avoid draughts during and for 3 days after application. During application and for at least 1 week afterwards, the substrate and ambient temperature should not fall below +10°C or rise above +25°C.

### Substrate

CEMTOP 360 should be laid on a well-prepared 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 must be removed. Normal thickness is 8 - 15 mm, however the material can be laid up to 25 mm in one operation. The flowability in the material is excellent and gives a smooth surface. Falls to water outlet may be maintained by use of a reduced amount of water and then pumping from higher to lower end. The semi-hardened material may be easily formed or cut allowing any necessary adjustments to be made.

### Preparation and Priming

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 proprietary 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. Prepare the substrate using SMET Floor Primer as directed. Dry and very porous substrates must be primed twice.

### Mixing

CEMTOP 360 can be mixed in an automatic mixer pump. 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.

### Application

Pumping is carried out in sections so that a wet edge is maintained. A T-bar, spiked roller or notched trowel is used to assist the levelling process. 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. If heavy traffic is expected, never make thinner layers than 10 mm. Once hardened, the material is very hard and almost impossible to grind.

### General Information

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 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 concretion and the curing. Do not mix with other products. All tools and equipment should be cleaned promptly with water.

### Storage

6 months in dry conditions. max. 20°C and 50 % RH.

## Disposal Considerations

Waste material code (Directive 2008/98/EC, decision 2001/118/EC). Waste material code packaging (Directive 2008/98/EC).

## Safety

Caution. This product contains cement which becomes alkaline when wet and may cause skin irritation.

**Labelling: Hazardous:** contains cement, quartz sands and alumina oxide. Use goggles, gloves and protecting cream. Avoid prolonged contact with skin. Avoid inhaling the dust. Wash affected area with warm water and soap. Wash eyes thoroughly and consult a physician. Do not ingest. All standard precautions for the handling of construction materials/chemicals must be taken. See Cemart Health and Safety Data Sheet for further detailed information.

## Technical Information

Screed Specification EN 13813: 2002	
Maximum Thickness	25mm
Minimum Thickness	8mm
Use (Internal Use)	Yes
Compressive Strength (28 days)	>40 N/mm <sup>2</sup> after 28 days. Ultimate strength >50 N/mm <sup>2</sup>
Flexural Strength (28 days)	> 10 N/mm <sup>2</sup> after 28 days
Tensile Adhesion	> 3 N/mm <sup>2</sup>
Shrinkage (28 days)	<0.65 ‰ measured at 50% RH
Flow Rate	135 - 140 mm (Flow Ring 50 x 22mm)
Hardening Times	1-2 hours for foot traffic; 24 hours for light loads; 1 week for full loads
Recommend Water Content	14 % (3.5 litre / 25 kg bag) - temperature 20° C - 50 % RH
Pot Life	Approx. 15 minutes depending on ambient conditions
pH-value	approx. 11.5
Particle Size	Max 3 mm
VOC-value	Free from ammonia and formaldehyde
Water Stability	Water stable (expansion under water < free shrinkage)
Reaction To Fire	A1
Yield	1.9 kg/mm/m <sup>2</sup>
Wear Resistance	A12
Min floor temperature	+6° C
Dry powder Density:	approx. 1.8g / cm <sup>3</sup>
Wet Density:	> 2.1 - 2.2 g / cm <sup>3</sup>



Cemart BVBA  
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3920 LOMMEL  
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Cementitious screed for use in  
floor constructions

**EN 13813**  
**CT - C40 - F10**




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