

Cemtop 360



PUMPABLE FLOORING SYSTEM FOR INDUSTRIAL FLOORS

Product description:

CEM TOP 360 is a fast setting, low shrinkage, high early strength, pumpable cementitious floor screed formulated from High Alumina Cement, extremely hard aggregates, supplementary binders and chemical admixtures. It is a pre-blended dry powder, designed for use in industrial buildings. Cemtop 360 resists attack from salt and chemicals better than normal concrete.

Normal application thickness between 5 and 15 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 1-3 days depending on conditions on site.

Substrate preparation:

The surface to be treated must be hard, sound and free from surface contamination, all dust should be vacuumed from the surface. Concrete laitence and old coatings should be removed mechanically e.g. by enclosed shot blasting, scabbling or scarification. Concrete contaminated by oil or grease may require flame gunning and/or treatment with a proprietary degreaser.

Priming:

After preparation concrete and cementitious surfaces must be primed as follows:

1. Normal concrete: 1 part Cemprime + 3 parts clean potable water.
2. Absorbant or porous concrete:
1st coat – 1 part Cemprime + 5 parts water
2nd coat – 1 part Cemprime + 3 parts water

Mixing:

CEM TOP 360 can be mixed in an automatic mixer pump. Only use clean potable water at a rate of 3.75 – 4.25 liter per 25 kg bag. The mixed material should be used within 15 minutes.

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 metres, depending on the pump capacity.

CEM TOP 360 should be laid on a well-primed substrate. If heavy traffic is expected a 10 mm layer is recommended. 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. The hardened material is very hard and almost impossible to grind.

Cleaning:

All tools and equipment should be cleaned promptly with water.



Technical information

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Cemtop 310



TECHNICAL DATA

Water content 15 % - 50 % RH - temperature 20 ° C	
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 2 mm
Free shrinkage:	<0,65 ‰ measured at 50% RH and 20 °C
pH-value:	Approximately 11,5
Flowability:	135-140 mm
Water stability:	Water stable, (Expansion under water < Free shrinkage)

PROCESSING DATA (20°C)

Water admixture:	14 - 15 % (3,75 - 4,25 litre / 25 kg bag)
Flow ring test :	135-140 mm.
Min temperature:	+6oC
Dry powder Density:	approx. 1,7 g / cm ³
Wet density:	> 2,0 -2,1 g / cm ³
Open time:	10 - 15 minutes depending on temperature
Curing time:	1 - 3 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.

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.

Protect the Environment:

Please dispose of empty containers or surplus product in accordance with local authority regulations. The product should not be disposed of with household waste. Do not allow material to enter drains or sewage systems.

Disclaimer:

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 what products are suitable for use. Accordingly, no liability will be accepted by IBC Ltd.

January 2007



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