

## PUMPABLE FIBER REINFORCED FLOORING SYSTEM FOR USE IN THE INDUSTRY

### PRODUCT DESCRIPTION

CEMDURE 310F is a pumpable self-smoothing screed, reinforced with fibers, formulated from High Alumina Cement. It is a pre-blended dry powder, to which only water has to be added.

### APPLICATIONS

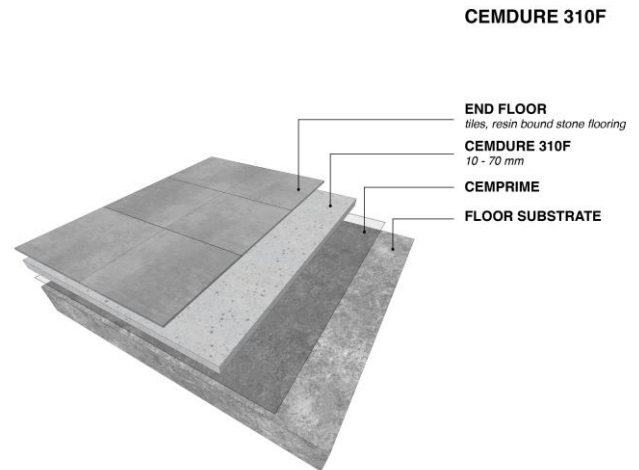
CEMDURE 310F has been designed as a subfloor for industrial flooring. It may be used on a stone or wooden foundation. It has a perfect binding with the subfloor and resists water damage.

### USER GUIDE

CEMDURE 310F can be applied with an automatic continuous mixer pump. The advised thickness is between 10 and 70 mm. The semi-hardened material may be easily 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 local conditions.

### LAYER BUILD-UP



### TECHNICAL DATA

Water content 14%. 50% RH and temperature of 20°C during processing

Flexural Strength	> 6 N/mm <sup>2</sup> after 28 days.
Compressive Strength	30 N/mm <sup>2</sup> after 28 days. Ultimate strength 35 N/mm <sup>2</sup>
Adhesion to subfloor	> 2 N/mm <sup>2</sup>
VOC-value	free from ammonia and formaldehyde
Particle size	max. 2 mm
Free shrinkage	< 0,4‰ (measured at 50% RH)
pH-value	approx. 11,5
Flowability (Flow ring test SS 923519 (diam.50x23mm))	130 - 140 mm
Water stability	water stable (expansion under water < free shrinkage)
Material consumption	approx. 1,75 kg per mm thickness/m <sup>2</sup>

### PROCESSING DATA

Water admixture	14% (3,5 litre/25 kg bag)
Min. floor temperature	+6 °C
Dry powder density	approx. 1,7 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	10 months in dry conditions, max. 20°C and 50% RH

## SUBFLOOR

CEMDURE 310F should be laid on a well prepared subfloor. The flowability in the material is very good and gives a smooth surface ready for carpeting. Falls to water outlet may be maintained by use of a reduced amount of water and then pumping from higher to lower end.

## 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 shot blasting, scabbling or scarifying. Concrete contaminated by oil or grease may require flame gunning and/or treatment with a proper degreaser. Apply CEMPRIME AC on the subfloor.

## MIXING

CEMDURE 310F can be mixed in an automatic continuous mixer pump (without mortar hopper). Use only clean potable water with a max. temperature of +20°C at a rate of 3,5 liter 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. CEMDURE 310F does not contain casein or other protein bearing additives that develop ammonia during the curing process. For further information refer to the safety data sheet of CEMDURE 310F.

**Transport:** No 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-C35-F6 - Cementitious screed

Reaction to fire	A2 <sub>FL</sub> -S1	Wear resistance	A22
Release of corrosive substances	CT	Sound insulation	NPD
Water permeability	NPD	Sound absorption	NPD
Water vapour permeability	NPD	Thermal resistance	NPD
Compressive strength	C35	Chemical resistance	NPD
Flexural strength	F6		

NPD = No Performance determined