

## PUMPABLE FIBRE REINFORCED FLOORING SYSTEM FOR USE IN DOMESTIC BUILDINGS WITH FLOOR HEATING

### PRODUCT DESCRIPTION

CEMDURE 110F is a pumpable and fibre reinforced cementitious self-smoothing screed formulated from High Alumina Cement. It is a pre-blended dry powder, designed for use in domestic buildings.

### APPLICATIONS

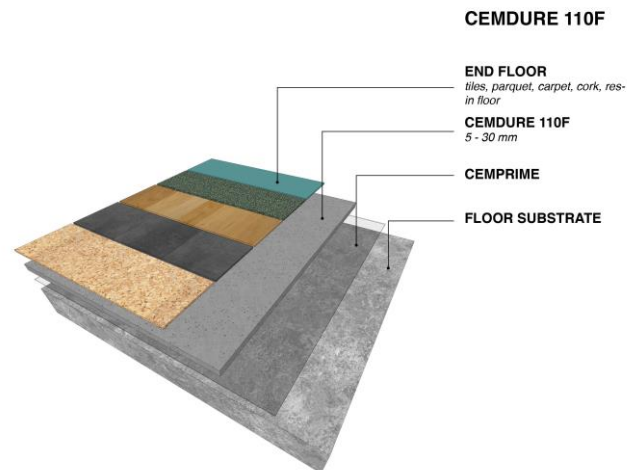
CEMDURE 110F is designed for use as a thin levelling screed in domestic buildings with floor heating.

### USER GUIDE

CEMDURE 110F can be applied with an automatic continuous mixer pump. In small areas it can be mixed in a barrel or drum and spread out on the floor. Application at thickness between 5 and 30 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 week depending on local conditions.

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.

### LAYER BUILD-UP



### TECHNICAL DATA

Water content 18%. 50% RH and temperature of 20°C during processing

<b>Flexural Strength</b>	6 N/mm <sup>2</sup> after 28 days
<b>Compressive Strength</b>	28 N/mm <sup>2</sup> after 28 days
<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. 1 mm
<b>Free shrinkage</b>	< 0,5‰ (measured at 50% RH)
<b>pH-value</b>	approx. 11,5
<b>Flowability</b> (Flow ring test SS 923519 (diam.50x23mm))	150 - 155 mm
<b>Water stability</b>	water stable (expansion under water < free shrinkage)
<b>Material consumption</b>	approx. 1,75 kg per mm thickness/m <sup>2</sup>

### PROCESSING DATA

<b>Water admixture</b>	18% (4,5 litre/25 kg bag)
<b>Min. floor temperature</b>	+6 °C
<b>Dry powder density</b>	approx. 1,5 g/cm <sup>3</sup>
<b>Wet density</b>	> 1,9 g/cm <sup>3</sup>
<b>Open time</b>	approx. 25 minutes depending on the temperature
<b>Curing time</b>	1 - 2 hours for foot traffic 24 hours for light traffic 1 week for full loading
<b>Storage</b>	10 months in dry conditions, max. 20°C and 50% RH

## SUBFLOOR

CEMDURE 110F should be laid on a well prepared subfloor.

## 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 110F 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 4,5 liter per 25 kg bag. The mixed material should be used within 25 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 CEMTDURE 110F.



**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-C25-F6 - Cementitious screed

Reaction to fire	A1	Wear resistance	NPD
Release of corrosive substances	CT	Sound insulation	NPD
Water permeability	NPD	Sound absorption	NPD
Water vapour permeability	NPD	Thermal resistance	NPD
Compressive strength	C25	Chemical resistance	NPD
Flexural strength	F6		

NPD = No Performance determined