

## PUMPABLE FLOORING SYSTEM AS A THICK BASE LAYER

### PRODUCT DESCRIPTION

CEMDURE 103 is a pumpable self-smoothing screed formulated from High Alumina Cement. It is a pre blended dry powder, designed for use in domestic buildings.

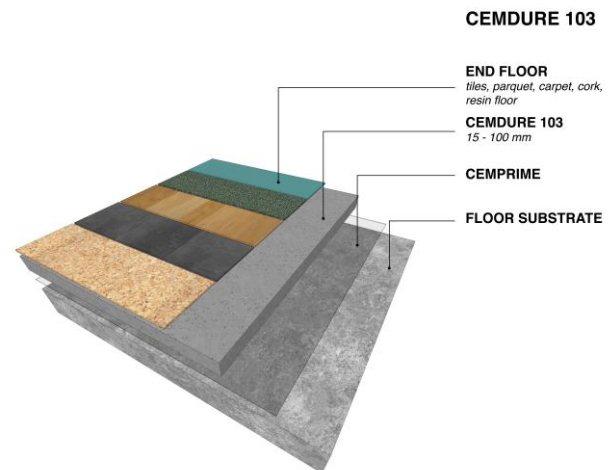
### APPLICATIONS

CEMDURE 103 is designed to be used as a subfloor for carpets, stone or marble tiles, parquet etc. It has a perfect binding with the counter floor and resists water damage.

### USER GUIDE

CEMDURE 103 can be applied with an automatic continuous mixer pump (without mortar hopper). In small areas it can be mixed in a barrel or drum and spread out on the floor. The advised thickness is 15-100 mm to apply in one operation. The semi-hardened material may be easily formed or cut allowing any necessary adjustments to be made. Falls to water outlet may be maintained by use of a reduced amount of water and then pumping from higher to lower end. 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



- CEMDURE 103**
- END FLOOR**  
tiles, parquet, carpet, cork, resin floor
- CEMDURE 103**  
15 - 100 mm
- CEMPRIME**
- FLOOR SUBSTRATE**

### TECHNICAL DATA

**Water content 17%. 50% RH and temperature of 20°C during processing**

|  |  |
|--|--|
| <b>Flexural Strength</b>                                     | > 3 N/mm <sup>2</sup> after 28 days                  |
| <b>Compressive Strength</b>                                  | 12 N/mm <sup>2</sup> after 28 days                   |
| <b>Adhesion to subfloor</b>                                  | > 2 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>  | < 0,25‰ (measured at 50% RH)                         |
| <b>pH-value</b>  | approx. 11,5   |
| <b>Flowability</b> (Flow ring test SS 923519 (diam.50x23mm)) | 120 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>        | 17% (4,25 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>            | > 2 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<br>24 hours for light traffic<br>1 week for full loading |
| <b>Storage</b>                | 6 months in dry conditions, max. 20°C and 50% RH                                      |

## SUBFLOOR

CEMDURE 103 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 103 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 4,25 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 103.



**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-C12-F3 - Cementitious screed

|                                 |     |                     |     |
|---------------------------------|-----|---------------------|-----|
| Reaction to fire                | NPD | 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            | C12 | Chemical resistance | NPD |
| Flexural strength               | F3  |                     |     |

NPD = No Performance determined