SELF-LEVELLING FLOORING SYSTEM AS A THICK BASE LAYER

PRODUCT DESCRIPTION

CEMDURE THICK is a self-smoothing screed formulated from High Alumina Cement. It is a pre blended dry powder, designed for use in domestic buildings. CEMDURE THICK can be applied both manually or with an automatic continuous mixing pump after addition of water.

APPLICATIONS

CEMDURE THICK 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.

ADVANTAGES

- Usable to a thickness of 100 mm
- Remarkable smoothness
- Maximum adherence
- Fast curing
- Seamless
- Shrink-proof and tension free

TECHNICAL DATA

Water content 17%. 50% RH and temperature of 20°C during processing	
Flexural Strength	> 3 N/mm² after 28 days
Compressive Strength	> 18 N/mm² after 28 days
Adhesion to subfloor	> 2 N/mm²
VOC-value	free from ammonia and formaldehyde
Particle size	max. 1 mm
Free shrinkage	< 0,25‰ (measured at 50% RH)
pH-value	approx. 11,5
Flowability (Flow ring test SS 923519 (diam.50x23mm)	120 mm
Water stability	water stable(expansion under water < free shrinkage)
Material consumption	approx. 1,75 kg per mm thickness/m²

PROCESSING DATA

Water admixture	17% (4,25 litre/25 kg bag)
Min. floor temperature	+6 °C
Dry powder density	approx. 1,5 g/cm³
Wet density	> 2 g/cm³
Open time	approx. 25 minutes depending on the 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

USER GUIDE

CEMDURE THICK 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.

SUBFLOOR

CEMDURE THICK 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

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 in the case a mixing pump is used. 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 CEMDURE.

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 to download the latest version of our technical data sheet.

CE Cemart NV, Maatheide 76E, B-3920 Lommel cemart

EN 13813 CT-C16-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	C16	**Chemical resistance**	NPD
Flexural strength	F3		

NPD = No Performance determined