

CEMDURE 110 – Levelling Screed

CEMDURE 110 is a pumpable self-smoothing screed formulated from High Alumina Cement, aggregates, supplementary binders and chemical admixtures. It is a pre-blended dry powder, designed for use in domestic and commercial buildings. Application at thickness between 2 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 1-3 days due to conditions on site.

- Smooth Finish
- Pumpable 2 – 30mm
- Early Trafficking
- Hand & Pump Application
- Reduced Drying Times

Field Of Application

CEMDURE 110 is designed for use as a thin levelling screed in domestic and commercial buildings. It can be used as a subfloor for carpets or tiles. CEMDURE 110 can be applied with an automatic mixer pump. In small areas it can be mixed in a barrel or drum and spread out on the floor.

Working Instructions

Light ventilation in the working area is necessary however, windows and door openings must be closed sufficiently to avoid draughts during and for 3 days after application. During application, and for at least 1 week afterwards, the substrate and ambient temperature should not fall below +10°C or rise above +25°C. The moisture content of the substrate must be:

Cement Based: ≤ 2.0 CM%

Calcium Sulphate with UFH: ≤ 0.3 CM%

Calcium Sulphate: ≤ 0.5 CM%

Substrate

CEMDURE 110 should be laid on a well prepared subfloor. Dust, laitance, grease or other weak materials must be removed. Normal thickness is 6 - 10 mm, but the material can be laid up to 25 - 30 mm in one operation. 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. The semi-hardened material may be easily formed or cut allowing any necessary adjustments to be made.

Storage

6 months under dry conditions.

Preparation and Priming

The surface to be treated must be hard, sound and free from surface contamination and 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 proprietary degreaser. Prepare the substrate using Smet Floor Primer as directed. Dry and very porous substrates must be primed twice.

Mixing

CEMDURE 110 can be mixed in an automatic mixer pump. Only use clean potable water at a rate of 4.75 - 5.0 liter per 25 kg bag. The mixed material should be used within 15 minutes.

Application

Pumping is carried out in sections so that a wet edge is maintained. A T-bar, spiked roller or notched trowel is used to assist the levelling process. 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.

General Information

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 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 concretion and the curing. Do not mix with other products.

Safety

Caution. This product contains cement, which becomes alkaline when wet and may cause skin irritation. Use goggles, gloves and protecting cream. Avoid prolonged contact with skin. Avoid inhaling the dust. Wash affected area with warm water and soap. Wash eyes thoroughly and consult a physician. Do not ingest. See Health and Safety Data Sheet for further information.

Technical Information

Screed Specification EN 13813: 2002	
Maximum Thickness	30mm
Minimum Thickness	2mm (bonded)
Use (External Use)	No
Use (Internal Use)	Yes
Compressive Strength (28 days)	> 25 N/mm ²
Flexural Strength (28 days)	> 6.0 N/mm ²
Tensile Adhesion	> 3.0 N/mm ²
Shrinkage (28 days)	< 0.05
Flow Rate	150 – 155mm (Flow Ring 50 x 22mm)
Hardening Time (before foot traffic)	1-3 hours
Hardening Time (final covering)	24 hours (depending on thickness)
Recommend water content	19 - 20 % (4.75 - 5.00 litre / 25 kg bag)
Pot life	Maximum 15 minutes depending on ambient conditions
Reaction To Fire	A 2fl – s1
Yield	1.5 kg/mm/m ²



Cemart bvba
Maatheide 76e
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