

TECHNICAL DATA SHEET: CEMFIX 567

PRODUCT DESCRIPTION

CEMFIX 567 is a specially formulated pre-mixed dry mortar based on Low Alkali Portland Cement, designed for pumping concrete floors. This has the consequence that no segregation occurs in the material, no air bubbles and lower shrinkage. This system provides sufficient strength to the surface, to be used as industrial floor, without addition of any surface hardening products (dry shake). If the surface of the floor is being polished or grinded after curing, this gives an appearance of a polished terrazzo floor.

APPLICATIONS

CEMFIX 567 is specially designed to be pumped on to a well prepared sub floor. The water content to the dry mixed blend is about 18,5 % of the weight of the dry mixed material. This provides a material with a high strength and low shrink. The material should be mixed in an automatic continuous mixer pump (without mortar hopper) and then be pumped out to the floor. The minimum thickness is 15 mm. To reach the right thickness it should be rapidly applied on surface. The water amount is very important, 18,5% water gives a concrete which is very easy to apply. If the temperature is high, the open time is approximately 30 minutes. Also, because of the high temperature the material comes to a yelling rather quickly, so prepare the surface with a spatula or a 1,5 m long metal bar that can be vibrated on the surface, in purpose to get material open again. The mortar is very fluid with a wet density of about 2.1 kg/litre. Do not add additional water until curing has started. The material must be walk-able, without giving any foot prints in the surface until moist curing is allowed to start.

SUB LAYER

Cemfix 567 should be applied on a well-prepared, clean sub layer. Dust, laitance, grease or other weak materials such as asphalt must be removed. There is not a specific limit for thickness laid with Cemfix 567. Pools of water or primer on the subfloor can flow up to the surface and be absorbed in the wet not cured material. That can cause a damaged surface.

TECHNICAL DATA

Water volume 18,5 % - 50 % RH - temperature during processing 20 ° C

Flexural Strength:	> 5 N/mm ² after 28 days
Compressive Strength:	> 70 N/mm ² after 28 days.
Adhesion to subfloor:	> 2 N/mm ²
VOC-value:	free from ammonia and formaldehyde
Particle size:	max 2.0 mm. The particles pass a 2 mm sieve. They can be wider in one direction.
Free shrinkage:	< 0,4 ‰ measured at 50% RH after 28 days
pH Value:	approx. 11,5
Water stability:	water stable, (expansion under water < free shrinkage)
Material consumption:	1,85 kg/mm/m ²

PROCESSING DATA at 20°C

Water admixture:	18,5 % (4,625 lt/ 25 kg bag) Check water amount regularly
Flow ring test:	115 – 120 mm. (Flow ring ø 50 mm ; height 23 mm)
Min. floor temperature:	+6°C
Dry powder Density:	approx. 1,7 g / cm ³
Wet density:	> 2,1 -2,3 g / cm ³
Open time:	30 - 50 minutes depending on temperature

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Curing time:	45 min – 2 hours for jelling depending on temperature 5 - 7 days for removing moulds depending on temperature.
Grinding:	Can be grinded after 4 – 7 days depending on temperature: For Technical information regarding grinding we refer to HTC.
Storage:	6 months in dry conditions.

PERFORMANCE

Preparation of sub-layer:

The surface to be treated must be hard, stable and free from surface contamination; all dust should be vacuumed or blown away from the surface. Concrete laitance and old coatings should be removed mechanically e.g. by using of diamond grinding. Concrete contaminated by oil or grease may require flame gunning and/or treatment with a proper degreaser. Cemfix 567 contains a small but important part polymer which increases the adhesion to the sub layer.

Mixing:

Cemfix 567 is strongly recommended to be mixed in an automatic continuous mixer pump (without mortar hopper) with high capacity. For bigger volumes, the capacity should be > 6 tonne/hour. Only use clean potable water with a max. temperature of +20°C at a rate of 4,625 litre per 25 kg bag. Always check the water amount with a flow ring test on the building site. The mixed material should be used within 25 minutes.

Cleaning:

All tools and equipment should be cleaned promptly with water.

Application:

The material is applied as normal concrete. The flow is very good so just a light vibration by a knock with a hammer on the mould gives a smooth surface.

Health and safety:

Hazardous - contains cement. Cement moist is corrosive. Protect eyes and prevent prolonged skin contact, keep out of reach of children. For further information we refer to the Health and Safety data sheet.

LABELLING:

Health and safety



Hazardous, contains cement and quarts sand.

Transportation: Not a 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.

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!