

## EM 4010

### Thin bed Floor Screed

#### Product description

EM 4010 is a polymer modified self•levelling thin bed floor screed based on a cement binder.

EM 4010 is supplied as a pre-blended dry mortar supplied in 25kg bags.

Meets all requirements of EN 13813 and DIN 18560 for Material class AI.

#### Field of application

EM 4010 is designed for use as a thin bed levelling screed for the encapsulation of under floor heating systems.

Suitable for residential and commercial applications, EM 4010 must be covered by a suitable floor covering.

EM 4010 can be installed as a bonded screed to the existing substrate or as a floating screed over insulation and/or separating layers from the existing floor.

#### Properties

Pumpable

Highly flowable

Good general durability under floor coverings

Low shrinkage

Economical solution for large areas

Heatable after 6 hours

Early Walkable

#### Technical data

Coverage rates thickness	1.7 kg/ m <sup>2</sup> and mm layer
<b>Drying time</b>	
Light traffic	after approx. 2-6 hours
Heavy traffic	after approx. 12 hours
Yield	550 1/1000 kg dry mortar
Min. nominal thickness	1-6 mm
	Outdoor application No Interior application Yes
Residual moisture content	
Before covering	S 0.5 CM% for unheated and S 0.3 CM% in heated constructions.
Recommended water content	approx. <b>21-23%/5.25-5.75 litres per 25kg bag</b>
Elasticity modulus	approx. 18000 N/ mm <sup>2</sup>
Compressive strength after 28 days	20 N/mm <sup>2</sup> EN 13892-2
Flexural strength after 28 days	5 N/mm <sup>2</sup> EN 13892-2
Fire rating	AI EN 13813
Application temperature	Ambient air: +10°C to+25°C Substrate: +10°C to+25°C
Working time	up to 30 minutes @ 20°c
Flow rate	Good flow behaviour 24 - 26cm without water separation.

## Substrate Preparation

- The substrate must be solid, load bearing, dry and free from dust and contamination.
- Substrate priming must be in accordance to the EM 4176 priming application sheet.
- When rising capillary moisture or vapour from the substrate exists apply the EM 47140N epoxy primer in accordance to the application sheet.
- For unevenness larger than 10mm use EM 4610 screed.

## Mixing and pumping procedure

- Mix EM 4010 with either a Duo200 Mixing pump or an electric drill with the correct agitator for filling compounds.
- For manual processing mix for 1-2 minutes with a suitable agitator.
- **The material is mixed with approx 5.25-5.75 litres of clean water per 25kg bag.**
- Too high a water content reduces strength, increases the risk of cracking and shrinkage.
- If the material is being pumped, the maximum width of the working surface should not be more than 10-12 meters.

## Subsequent treatment

- Freshly installed surfaces must be protected against drafts, direct sun and heat.
- Do not use dehumidifiers for the first 2 days after completed floor.
- Sanding any work if required must be carried out within the first 24hours.

## Tool cleaning

Clean all tools with water periodically during installation of EM 4010.

## Storage

Store bags on pallets in a dry place for a maximum of 6 months.

## Packaging

Available in 25 kg bags  
40 bags/pallet  
1000 kg/pallet

## Environmental notices

GISCODE: CPI

Product hardens when water is added and can then be disposed of as normal construction debris.