



**FINOMIX**<sup>®</sup>  
DRY MORTARS

## Technical Data Sheet

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# FS 100

## cementitious levelling floor screed

(for layers up to 10cm thick)

- Excellent workability -  
Increased productivity on site
- 20% reduced final weight compared  
to conventional floor screeds
- Significantly increased mechanical strengths
- Excellent final surface
- Minimal drying shrinkage -  
It doesn't crack



# FS 100

## cementitious levelling floor screed

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### DESCRIPTION

Cement-based floor screed for filling and levelling of floors. It exhibits excellent workability, as it demands minimum effort during levelling, while it possesses high mechanical strength and 20% reduced weight compared to conventional floor screeds. It is classified as CT-C7-F3-A15 type cementitious screed material according to European standard EN 13813.

### APPLICATIONS

FS 100 is suitable for filling and levelling of floors to be covered with tiles, marble or other natural stones, parquet, etc.

Applied also for forming slopes on flat roofs.

Suitable for indoor and outdoor applications.

Application thickness may be up to 10cm per layer.

### PROPERTIES / ADVANTAGES

- Excellent workability. Significantly increased productivity on site due to the minimum effort that is needed for application and levelling.
- 20% reduced final weight compared to conventional floor screeds.
- Increased mechanical strengths compared to conventional floor screeds.
- Excellent final surface.
- Minimal drying shrinkage. It doesn't crack.

### HARMONIZED STANDARDS / REGULATIONS

- **EN 13813:** Cementitious screed material, type CT-C7-F3-A15.
- **Regulation (EC) No. 305/2011:** CE marked product with Declaration of Performance (DoP): FS100/CPR-7-13/035/10-2013.

### APPLICATION INSTRUCTIONS

- The substrate must be stable, dry, clean and free of dust, grease or other subtle materials.
- Before application the surface must be well dampened.
- It is advised to prime the substrate (bonding layer) with polymer resin **SBR POWER•LATEX** diluted 1:1 by weight with water. The application of FS 100 must follow while the applied resin is still damp.
- A bag of FS 100 (25kg) is gradually diluted into 4.0-4.5 kg of fresh water under continuous stirring, until a homogenous mixture is formed. It is recommended to use a low speed electric mixer (300rpm), a continuous mixer or a traditional mixing machine.
- The mixture is poured on the substrate and spread with a large metal spreader.
- It is advised to create perimetrical joints and expansion joints after every 20m<sup>2</sup> of surface.

### CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened material can only be mechanically removed.

### RECOMMENDATIONS

- Temperature during application should be between +5°C and +35°C.
- Don't mix the product with dirty or salty water.
- The addition of **LATEX** enhancing resin in a ratio of 1:1 to the mixing water, significantly increases the adhesion and flexural strength of the substrate, making it suitable for use in underfloor heating applications.
- In periods of increased temperatures, surfaces must be dampened for 2-3 days after application.
- Tiles can be installed after approximately 7 days.

TECHNICAL CHARACTERISTICS	
PRODUCT CHARACTERISTICS	
Appearance	fiber-reinforced cementitious powder
Colour	grey
Bulk density	1.50 ±0.05 kg/lit
APPLICATION CHARACTERISTICS (+23°C / 50% R.H.)	
Mixing ratio	4.0-4.5 kg water / 25kg bag
pH	> 10
Pot life	about 2h
Application thickness	≤ 10cm
Application temperature	minimum: +5°C / maximum: +35°C
Surfaces ready for foot traffic	after 12h
Tile installation	after 7 days
Consumption	13-14 kg/m <sup>2</sup> for a 1cm thick layer
PERFORMANCE CHARACTERISTICS	
Flexural strength after 28 days (EN 13892-2)	≥ 3.0 N/mm <sup>2</sup>
Compressive strength after 28 days (EN 13892-2)	≥ 7.0 N/mm <sup>2</sup>
Abrasion resistance (EN 13892-3)	A 15

**Note:** Measures were carried out in laboratory environment conditions with no ventilation. The different conditions in the manufacture plant (temperature, humidity, ventilation, substrate absorption) may affect the properties of the material.

#### SAFETY PRECAUTIONS

- The product contains cement which has an alkaline reaction with water and is classified as irritant.
- Always wear appropriate personal protective equipment for eyes and skin (protective clothing, gloves and goggles).
- If skin contact occurs, rinse well with plenty of clean water.
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Consult product's Safety Data Sheet for further instructions on safety handling.
- **PRODUCT FOR PROFESSIONAL USE.**

#### PACKAGING - STORAGE

Available in:

- 25kg paper bags.

**Storage:** 12 months from production date, if stored in original, sealed packaging, protected from direct sunlight and moisture.

#### LEGAL NOTICE

The technical characteristics and recommendations for the use and application of the **FINOMIX** range of products are based on the knowledge and experience of the company. The above information shall be considered merely indicative and subject to confirmation after long-term practical application. For this reason, anyone who intends to use the product must ensure that it is suitable for the envisaged application. Since the specific site conditions during the applications are beyond the control of our company, the user alone is fully responsible for any consequences deriving from the use of the product. **FINOBETON S.A. (FINOMIX)** has the right to modify the properties of its products without prior notice. This release voids any previous publications issued for this technical specifications sheet.

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