



انظمة تشطيب  
Finishing Systems

## FLOOR SCREED FS400

### PRODUCT DESCRIPTION

DMC Floor Screed FS400 is a PP fibre re-enforced factory pre-blended dry concrete floor screed for residential or light commercial use over existing concrete floor. Applied on a separating layer or on floor insulation, FS400 is ideal to create a perfect even surface ready for tiling. Mixed by hand or with a machine, it is an economical way to create a leveled surface for tiling, as it requires only the addition of water.

### TYPICAL APPLICATIONS

DMC FS400 is used for leveling purposes on concrete floors for all residential applications. Wet areas require additional water proofing.

### FEATURES & BENEFITS

- Very high compressive strength
- Easy to use
- Fast and economical leveling solution

### APPLICATION PROCEDURE

#### Surface preparation:

All surfaces must be clean, sound and free from all traces of oil, grease, mold release agent and curing compound. Concrete should be cured sufficiently that all shrinkage has occurred. FS400 must be placed on a bond-breaker (for example a plastic foil) and we recommend expansion joints to be placed for all areas exceeding 50 m<sup>2</sup> in size. A flexible joint strip should also be placed around all adjacent wall and column connections.

#### Mixing instructions:

Add 25KG of FS400 to 3.3L of cool, clean and salt-free water. Mix to a uniform lump free consistency. DMC FS400 should ideally be mixed in a mixing machine at slow speed. DMC recommends M-tec D30 machine for fast and economic mixing. Part bags should be mixed using a slow speed drill and mixing paddle.

#### Application instructions:

Distribute mixed material on the floor with minimum 25mm thickness. Compact the material with a concrete vibrator or tamper it down and create leveled surface with aluminum bar (FS400 is not self levelling). Slightly roughen the surface with stiff broom to ensure perfect adhesion for tiling. Always refer to the relevant DMC Method Statements for detailed installation procedures for standard and wet area application.

## TECHNICAL DATA

### COMPOSITION

Binder:	Grey cement
Aggregates:	Graded sand (max. grain size 4.0mm)
Additives:	Organic polymers to improve consistency and workability

### SUBSTRATES

Concrete

### APPLICATION

Mixing ratio:	3.3L per 25KG
Rec. min. thickness	25mm

### TYPICAL PROPERTIES

Abrasion resistance (28 days):	<700mm <sup>3</sup>
Air content:	<5volume%
Appearance:	Grey powder
Colour:	Grey
Compressive strength:	>40N/mm <sup>2</sup>
Final hardening after:	7 days
Flexural strength:	>4.2N/mm <sup>2</sup>
Fresh mortar density:	app. 2100g/liter
Initial set end:	app. 180-210 min
Initial set start:	app. 60-100 min
Mortar class:	C40-F4
Shrinkage:	<3mm/m
Yield: approx.	500L/Ton

### CONFORMITY

ASTM C144	ASTM C150
ASTM C270	EN 459-2
EN 1015-3	EN 1015-6
EN 1015-7	EN 1015-11
EN 1188-2	EN 12808-2
EN 13813	EN 13872

### FIRE CLASSIFICATION

A1, 100% noncombustible (EN 13501-1)



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## APPLICATION PROCEDURE CONTINUED

### Curing:

During rapid drying conditions, such as hot climate, curing with a fine spray of clean water is required. The screed can also be covered with plastic sheeting without the need for curing with water for 3 days.

## APPLICATION TEMPERATURE

Do not use material below 5°C, schedule work for morning hours during extreme heat.

## LIMITATIONS OF USAGE

- Always add material to the water while mixing
- Do not re-temper mixed material
- Do not mix with any other material
- For areas of more than 50m<sup>2</sup> expansion joints are recommended.

## TECHNICAL INFORMATION

Consult the DMC Technical Services Department for specific recommendations concerning all other applications. Visit the DMC website [www.dmc-mix.com](http://www.dmc-mix.com) for additional information about products, systems and for updated literature.

## SAFETY PRECAUTIONS

As with all building products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eye and skin immediately. If accidentally ingested, seek immediate medical attention. Use in well ventilated areas. Avoid inhalation of dust when using powdery products. Wear suitable protective gloves, safety goggles and respiratory protection mask.

## STORAGE

Store out of direct sunlight, clear of the ground on pallets protected from rainfall. Avoid excessive compaction. Shelf life is 9 months for all dry mortar products and 3 months for all liquids. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult DMC's Technical Services Department.

## PACKAGING

- 25KG bag
- 1,800KG jumbo bag
- Silo (check availability in your area)



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## NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local DMC representative. DMC reserves the right to have the true cause of any difficulty determined by accepted test methods.

## QUALITY & CARE

All products originating from DMC Saudi Arabia are manufactured under conformity to the requirements of the quality, environmental and occupational health & safety standards of the above mentioned SASO, ANSI, ASTM, ISO and DIN EN norms.

## DISCLAIMER

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labor involved in the application are beyond our control. All data is derived by approved testing methods and application experiments under laboratory conditions. Deviations are possible under practical conditions. As all DMC technical datasheets are updated on a regular basis it is the user's responsibility to obtain the most recent issue.