



انظمة تشطيب  
Finishing Systems

## STYRO FIX SF100

### PRODUCT DESCRIPTION

DMC SF100 is a high performance bonding mortar for fixing polystyrene insulation boards on all wall surfaces. Applied with a spray machine, SF100 is an economical and fast way for reliable fixing of polystyrene boards. SF100 is developed for the harsh Middle East climate conditions and optimized for the latest automatic conveying, mixing and spraying machines. SF100 is perfect in combination with DMC Mesh Fix MF60 for External Insulation Finishing Systems (EIFS).

### TYPICAL APPLICATIONS

DMC SF100 is primarily used to fix expanded polystyrene boards for External Insulation Finishing Systems (EIFS). SF100 can be used as well as a bonding mortar on fair-faced concrete substrate.

### FEATURES & BENEFITS

- High performance additives ensure excellent adhesion
- Long bucket life for outstanding workability
- Approved EIFS system component

### APPLICATION PROCEDURE

#### Surface preparation:

All surfaces must be clean, dimensionally stable, sound and free from all traces of oil, grease, mold release agent and curing compound. It should be ensured that the polystyrene boards are dry and free of contaminants that could impair adhesion. Concrete, screeds, renders and block work should be cured sufficiently that all shrinkage has occurred. The surface tolerance should be less than 30mm.

#### Mixing instructions:

Add 25KG of SF100 to 5.9L of cool, clean and salt-free water. Mix to a uniform lump free consistency and allow mixed material to stand for 5 minutes. Then mix again before use. Full bags should ideally be mixed in a mixing machine at slow speed. Part bags should be mixed using a slow speed drill and mixing paddle.

#### Application instructions:

Dampen substrate with clean and salt-free water directly before application. Apply SF100 to a uniform thickness of 3 to 5mm on the back of the polystyrene board. Minimum 50% of the surface should be covered with SF100. If needed, SF100 can additionally be applied on the wall to ensure full adhesive contact. Boards should be fixed by pressing into place ensuring the board back achieves full contact with the adhesive.

## TECHNICAL DATA

### COMPOSITION

Binder:	Grey cement Hydrated lime
Aggregates:	Graded sand (max. grain size 1.6mm)
Additives:	Organic polymers to improve consistency and workability

### SUBSTRATES

AAC, blockwork, concrete, fair-faced concrete, paint, red brick, render

### APPLICATION

Mixing ratio:	5.9L per 25KG
Rec. min. thickness	3mm
Max. thickness/layer	5mm

### TYPICAL PROPERTIES

Appearance:	Light grey powder
Bonding strength:	>0.1 (on Polystyrene)N/mm <sup>2</sup>
Colour:	Grey
Compressive strength:	>6N/mm <sup>2</sup>
Consumption per m <sup>2</sup> :	1.45kg/mm <sup>2</sup>
Flexural strength:	>2N/mm <sup>2</sup>
Mortar class:	CS III
Yield: approx.	720L/Ton

### CONFORMITY

ASTM C144	ASTM C150
ASTM C270 Type 0	EN 998-1
ETAG 004	

### FIRE CLASSIFICATION

A1, 100% noncombustible (EN 13501-1)



# STYRO FIX SF100

## APPLICATION PROCEDURE CONTINUED

### Curing:

Leave for a minimum of 4 days before reinforcement step with fibre mesh.

## APPLICATION TEMPERATURE

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

## LIMITATIONS OF USAGE

- Avoid applying the material in direct sunlight
- Always add material to the water
- Do not re-temper mixed material
- Do not mix with any other material
- Setting time of the product may vary largely depending on climatic conditions, substrates and application thickness of the product

## 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
- 1,200KG jumbo bag



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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.



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