



انظمة تشطيب  
Finishing Systems

## THIN BED MORTAR TBM80

### PRODUCT DESCRIPTION

DMC TBM80 is a thin bed adhesive mortar for glueing aerated concrete blocks to build load-bearing and partition walls. TBM80 is developed for the harsh Middle East climate conditions and optimized for the latest automatic mixing machines. The high flexibility and bonding strength makes TBM80 ideal for Aerated Autoclaved Concrete AAC blocks.

### TYPICAL APPLICATIONS

DMC TBM80 is used for building load-bearing and partition walls with AAC blocks. It is suitable for interior and exterior use.

### FEATURES & BENEFITS

- Excellent adhesion
- High flexibility
- Thin application for fast work progress

### 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. Larger surface inconsistencies should be filled and leveled out in advance.

#### Mixing instructions:

Add 25KG of TBM80 to 7L 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 3mm layer of material with notched trowel on the surface and embed AAC block with firm pressure into the mortar bed. Align block, remove excess material from joints and proceed with next block. Don't exceed maximum thickness per layer of 5mm.

#### Curing:

Cure for 2 – 3 days before rendering. During rapid drying conditions such as hot climate, curing with a fine spray of clean water is required.

### APPLICATION TEMPERATURE

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

Disclaimer: All data is derived by approved testing methods and application experiments under laboratory conditions. Deviations are possible under practical conditions.

### COMPOSITION

Binder:	Grey cement Hydrated lime White cement
Aggregates:	Graded sand (max. grain size 1.0mm)
Additives:	Organic polymers to improve consistency and workability

### SUBSTRATES

AAC

### APPLICATION

Mixing ratio:	7L per 25KG
Rec. min. thickness	3mm
Max. thickness/layer	5mm

### TYPICAL PROPERTIES

Appearance:	White/grey powder
Bonding strength:	>0.5N/mm <sup>2</sup>
Colour:	White/grey
Compressive strength:	>10N/mm <sup>2</sup>
Consumption per m <sup>2</sup> :	1.25kg/mm
Flexural strength:	>2.4N/mm <sup>2</sup>
Mortar class:	M10 EN 998-2, ASTM C270 Type N
Shear strength:	>1N/mm <sup>2</sup>
Yield: approx.	800L/Ton

### CONFORMITY

ASTM C109	ASTM C144
ASTM C150	ASTM C270 Type N
SASO EN 998-2	

### FIRE CLASSIFICATION

A1, 100% noncombustible (EN 13501-1)



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# THIN BED MORTAR TBM80

## 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.

