



انظمة تشطيب
Finishing Systems

LIME MORTAR LM50

PRODUCT DESCRIPTION

DMC LM50 is a low density mortar especially for clay, mud and red bricks as well as soft natural stone. LM50 is developed for the harsh Middle East climate conditions and optimized for the latest automatic mixing machines. LM50 is suitable for interior and exterior applications and is a perfect match for decorative red brick walls.

TYPICAL APPLICATIONS

DMC LM50 is used primarily for building walls with clay, mud and red bricks. LM50 can also be used for natural stone walls and is approved for interior and exterior application.

FEATURES & BENEFITS

- Matched for low-density wall construction material
- Long correction time allows perfect alignment
- White color for decorative finish

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, renders and blockwork should be cured sufficiently that all shrinkage has occurred. Fair-faced concrete or other smooth low absorbent substrates should be prepared with DMC Bridge BB60. Larger surface inconsistencies should be filled and leveled out with LM50 in advance.

Mixing instructions:

Add 25KG of LM50 to 5.9L of cool, clean and salt-free water. Mix to a uniform lump free consistency ideally with a mixing machine at slow speed. DMC recommends to use LM50 with an automatic mixing machine to enhance mixing quality and increase productivity.

Application instructions:

Dampen substrate with clean and salt-free water directly before application. Apply the required thickness layer of material with trowel to the bricks. Place the bricks in the mortar bed with firm pressure ensuring good contact. Check the level, remove excess material with trowel and continue with the next block.

Setting time:

Setting time of the product may vary largely depending on climatic conditions, substrates and application thickness of the product.

Curing:

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

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

COMPOSITION

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

SUBSTRATES

Blockwork, natural stone, red brick

APPLICATION

Mixing ratio:	5.9L per 25KG
Rec. min. thickness	12mm

TYPICAL PROPERTIES

Appearance:	White powder
Bonding strength:	N/mm ²
Colour:	White
Compressive strength:	5N/mm ²
Consumption per m ² :	1.48kg/mm
Flexural strength:	N/mm ²
Mortar class:	EN 998-2 M5, ASTM C270 Type 0
Shear strength:	>0.15N/mm ²
Yield: approx.	680L/Ton

CONFORMITY

ASTM C109	ASTM C144
ASTM C150	ASTM C231/C-91
ASTM C270 Type 0	SASO EN 998-2

FIRE CLASSIFICATION

A1, 100% noncombustible (EN 13501-1)



Dry Mortar Company
P.O. Box 355 798
Riyadh 11383
Kingdom of Saudi Arabia

Tel : (011) 210 97 58
Fax : (011) 275 47 93
info@dmc-mix.com
www.dmc-mix.com

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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 during extreme heat
- Always add material to the water
- Do not re-temper mixed material
- Do not mix with any other material

TECHNICAL INFORMATION

Consult the DMC Technical Services Department for specific recommendations concerning all other applications. Visit the DMC website 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.

