



انظمة تشطيب  
Finishing Systems

## INSULATION RENDER IR25

### PRODUCT DESCRIPTION

DMC IR25 is a premixed sprayable insulation render with excellent heat and noise reducing properties. IR25 can be used on all interior and exterior surfaces with minimum preparation of the wall. IR25 is developed for the harsh Middle East climate conditions and optimized for the latest automatic conveying, mixing and spraying machines. IR25 is ideal in combination with DMC Top Coat TC60.

### TYPICAL APPLICATIONS

DMC IR25 is used primarily for thermal insulation purposes on any interior or exterior brick and blockwork before applying a decorative thin coat render. Being 100% fireproof, IR25 is ideal for buildings with high standards for fire safety.

### FEATURES & BENEFITS

- Seamless insulation of all types of walls
- Spray application for maximum m<sup>2</sup> per day
- 100% fire proof

### 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 IR25 in advance.

#### Mixing instructions:

Add 20KG of IR25 to 12.4L 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 IR25 with an automatic mixing and spraying machine to enhance mixing quality and increase productivity.

#### Application instructions:

Dampen substrate with clean and salt-free water directly before application. Apply thick layer of material with trowel or spray gun to the wall. Don't exceed maximum thickness per layer of 25mm. If required thickness exceeds 25mm apply material in several layers. Distribute and level applied material with aluminum profile within maximum 20 minutes after application. Wait until material starts setting properly. Then open surface by scratching with rabbit to enable release of residual moisture.

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

## TECHNICAL DATA

### COMPOSITION

Binder:	Grey cement White cement
Aggregates:	Graded sand (max. grain size 2.0mm)
Additives:	Organic polymers to improve consistency and workability

### SUBSTRATES

AAC, blockwork, red brick

### APPLICATION

Mixing ratio:	12.4L per 20KG
Rec. min. thickness	20mm
Max. thickness/layer	25mm

### TYPICAL PROPERTIES

Appearance:	Light grey powder
Bonding strength:	0.1N/mm <sup>2</sup>
Colour:	White/grey
Compressive strength:	>1.5N/mm <sup>2</sup>
Consumption per m <sup>2</sup> :	0.42kg/mm <sup>2</sup>
Flexural strength:	>0.5N/mm <sup>2</sup>
Mortar class:	CS I - T1
Thermal conductivity:	0.13W/mK
Water absorption coefficient:	kg/m <sup>2</sup>
Yield: approx.	2350L/Ton

### CONFORMITY

ASTM C144	ASTM C150
ASTM C270	ASTM C270 Type 0
SASO EN 998-1	

### FIRE CLASSIFICATION

A1, 100% noncombustible (EN 13501-1)



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# INSULATION RENDER IR25

## APPLICATION PROCEDURE CONTINUED

### Curing:

During rapid drying conditions such as hot climate, curing with a fine spray of clean water is required for a period of 3 days. Allow to settle for one week before overcoating.

## 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

- 20KG bag
- 400KG 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, 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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