



Dry Mortar Company

INSULATION RENDER HR50



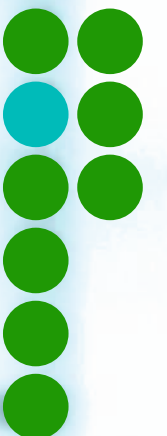
CHOOSE DMC INSULATION RENDER HR50 FOR YOUR NEXT BUILDING PROJECT

Dry Mortar Company combines German ingenuity with the highest quality Middle East materials to produce innovative pre-mixed mortars specially developed for Middle East conditions.

DMC – using nature's materials for a healthy living environment.

DMC offers the latest technology in insulating renders with outstanding insulating properties against heat and sound.

DMC pre-mixed plasters and renders – just add product to water.





#1 INSULATING SYSTEM FOR COMPLETE PROTECTION INSIDE AND OUT

SAFER because HR50 is a pure mineral system, completely non-combustible, humidity resistant and 100% solvent free. Safe to apply, safe to use and safe to recycle.

COOLER because you can insulate all surfaces, walls, columns, ceilings, roofs, even trafficable areas such as terraces and balconies.

QUIETER because HR50 has outstanding sound absorption properties. It can be sprayed indoors to almost any surface and shape.

STRONGER because HR50 is lightweight yet extremely pressure-stable and alkali-proof.

GREENER because it is made with recycled glass and will reduce your energy consumption for either heating or cooling. HR50 contains no pollutants and can be used on new and existing buildings.

A modern office interior featuring large windows, black leather seating, and a minimalist design. The space is bright and airy, with natural light streaming in from the windows. The text "EXTREME HEAT INSULATION AND SOUND ABSORPTION" is overlaid on the left side of the image.

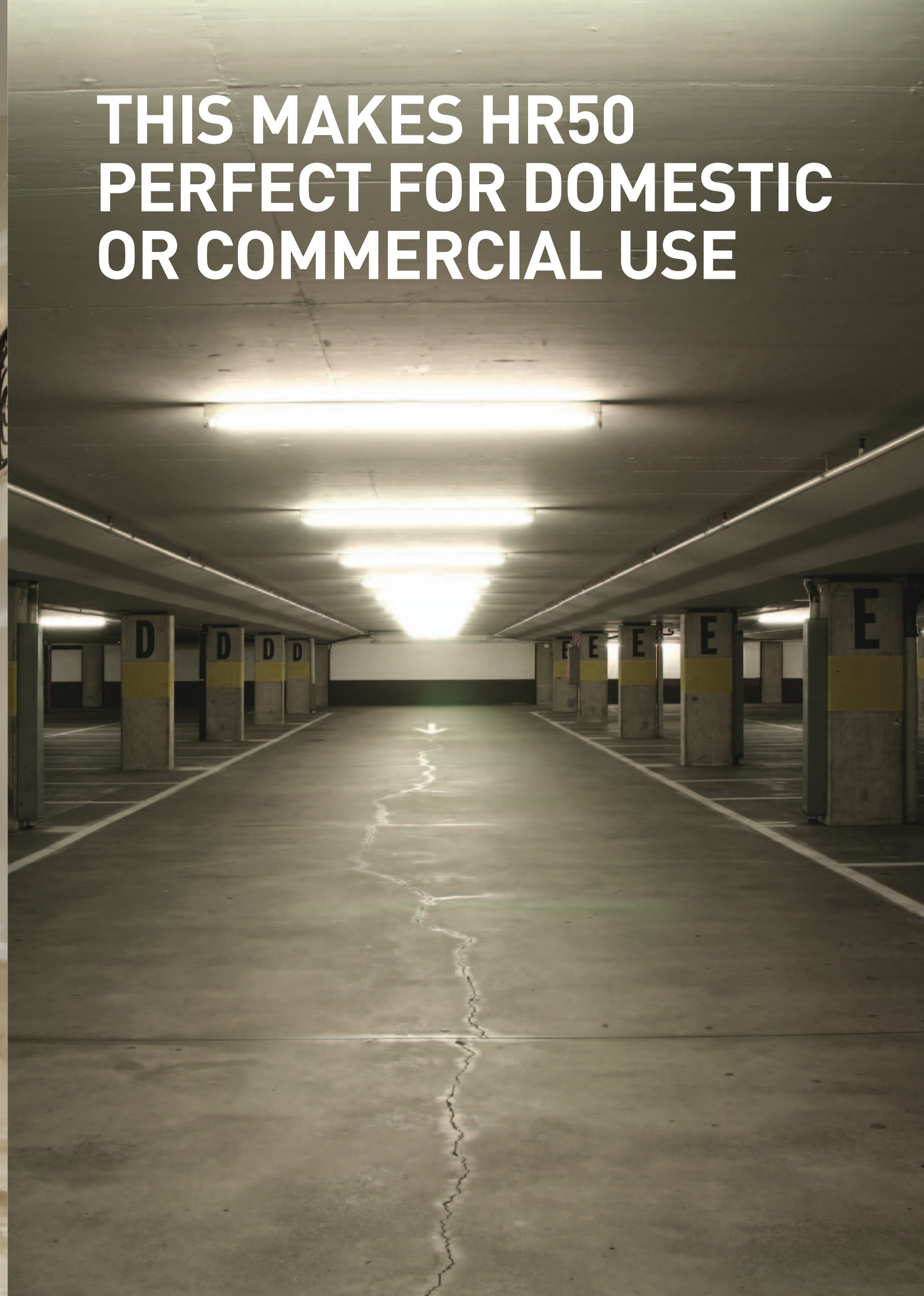
**EXTREME HEAT
INSULATION AND
SOUND ABSORPTION**

A low-angle shot of a modern glass skyscraper reaching into a clear blue sky. The building's curved glass facade reflects the sky and surrounding environment. The text "COMPLETELY FIRE PROOF" is overlaid on the top right of the image.

**COMPLETELY
FIRE PROOF**



**THIS MAKES HR50
PERFECT FOR DOMESTIC
OR COMMERCIAL USE**



DMC ADVANCED SPRAY TECHNOLOGY ENSURES FAST APPLICATION

COUPLED WITH SILO AND BULK DELIVERY OPTIONS, DMC MIXING MACHINES ARE SUPPLIED AUTOMATICALLY WITH DMC PRE-MIXED MATERIAL. THIS ENSURES THE EXACT AMOUNT OF WATER IS ADDED AND THE MIXED MATERIAL PUMPED FOR SPRAY APPLICATION.



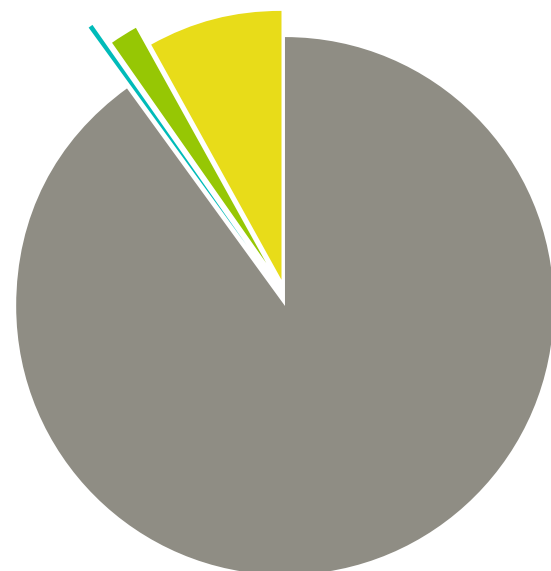
HURRICANE AND SILO
Horizontal and vertical transport of dry mortar to mixing machine



DUO MIX 2000
Mixing and pumping machine

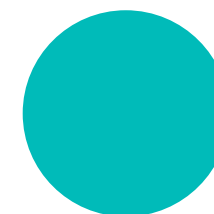
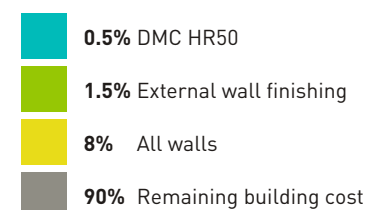
SILO
Transported and filled to any site





HOW MUCH will insulation with DMC HR50 add to the cost of building?

Very little indeed. Typically, all walls within a building make up 10% of the total built cost, and only 1% is spent on external finishing. HR50 may cost you less than 0.5% of your total building budget, but saving occurs right from the start and continues for the life of the building.

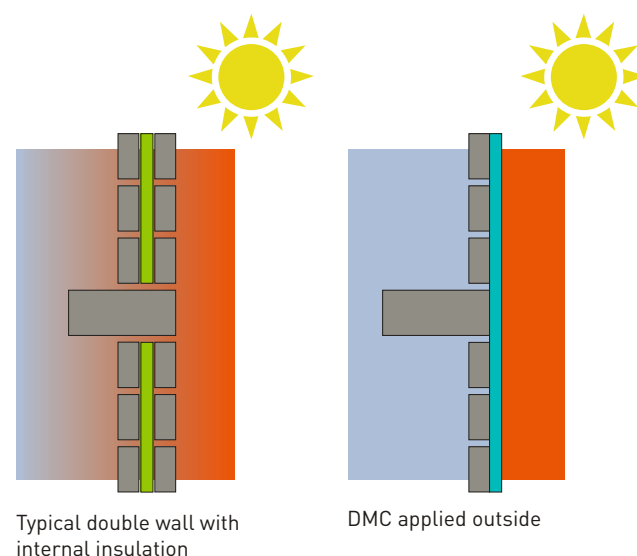


INSULATION RENDER HR50

For use on exterior and interior surfaces where a reduction of heat and/or sound is required.

The material is fully permeable and does not require a sealer or undercoat.

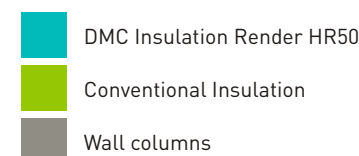
Suitable for Exterior and Interior.



SYSTEM COMPARISON

Conventional wall construction with internal insulation will leave heat bridges at columns and add the cost of a second internal wall.

HR50 applied to the outside of the building give full protection and lower structural loads with weight savings from single wall construction.



TECHNICAL DATA	
COLOUR	White
APPEARANCE	White powder
BINDER	White cement
ADDITIVES	Contains additives to improve consistency and workability
MIXING RATIO	Add 20 kg to 9 lt of water
RECOMMENDED MINIMUM THICKNESS	25 mm
CONSUMPTION	(kg/m ² /mm) 0.85
CONDUCTIVITY	Approximately 0.12 W/mK
STORAGE LIFE	12 months from manufacture under dry and sheltered conditions
AVAILABLE SIZES	
BAGS	20 kg bags
JUMBO BAGS	750 kg bags
SILOS	ask for availability in your area



KEY FEATURES

- extreme heat insulation
- excellent sound absorption
- chemical and weather resistant
- non combustible – absolutely fireproof
- healthy solution over other systems no gassing etc insulates against heat and cold
- protects against sound heat and fire
- completely natural with no solvents

ADVANTAGES

INSULATION RENDER HR50 is part of an integrated wall system starting with block laying mortars to renders and mineral paints for a complete solution.

HR50 is resistant to cracking because it is made in a controlled environment with special additives to give more flexibility in harsh conditions. It is also good to use on large projects. When combined with modern spray equipment it can be sprayed directly onto block work, and can be pumped up to 30 m vertically and up to 50 m horizontally.

HR50 insulating properties come from small balls of recycled glass; because of that it has a high compressive strength. As a permeable material it has heat and humidity regulating properties and reduces thermal stress.

INSULATION RENDER HR50 offers excellent adhesion, workability, durability and resistance to cracking. It is salt free, weather resistant and non-combustible.

APPLICATION

This product has been pre-mixed and needs only the addition of water. It contains special additives to improve workability and consistency.

Mixing can be done by hand, drill or by DMC mixing/spray machines. Always add the material to the water.

Preparation is done in the usual manner by lightly dampening the surface (must be free from dust, dirt and all manner of contamination). For low absorption, old or difficult surfaces apply one coat of BRIDGE SA90 by either spraying or using notch-trowel immediately followed by INSULATION RENDER HR50.

Application is by hand or DMC mixing/spray machines. Special additives enhance working time and reduce moisture loss to brick/block work and surrounding environment. DMC recommends to apply the material in the shade. Ideal working temperatures are 5° to 35° C.

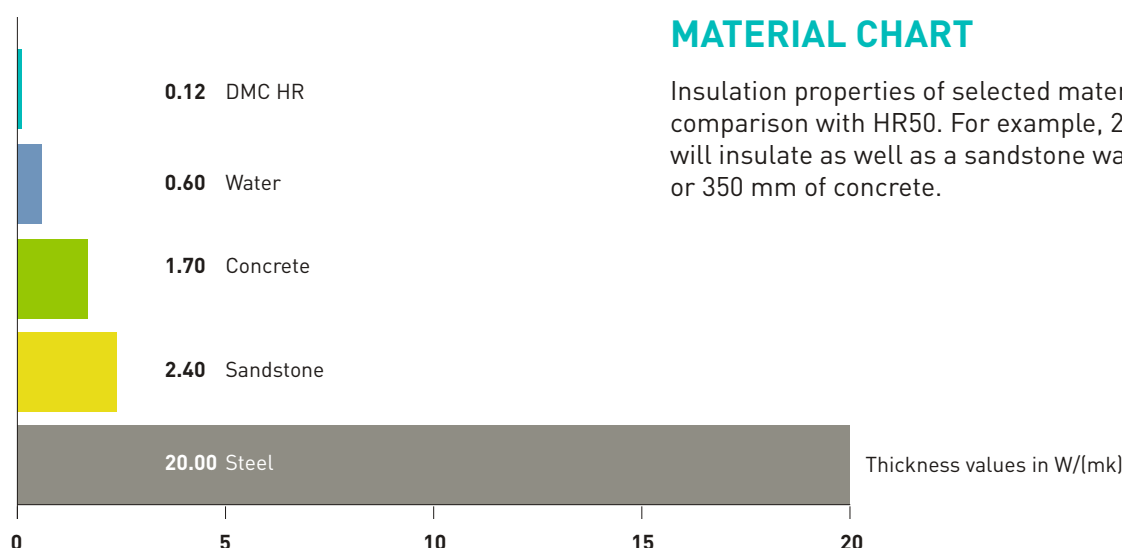
Curing should be done by applying water as required for at least two days immediately following application.

Finishing can be done in a variety of textures and styles from smooth to highly textured. Optional finishes with DMC RENDER MM20.

INSULATION RENDER HR50 does not require a sealer either prior or after application.

Please note: to ensure best quality DMC recommends to use water free from salt and other contaminants.

INSULATION RENDER HR50 is part of a complete rendering system. Painting is recommended to be done with BAUWERK Mineral Paints Visit www.dmc-mix.com for more information.



MATERIAL CHART

Insulation properties of selected materials in comparison with HR50. For example, 25 mm of HR50 will insulate as well as a sandstone wall of 500 mm or 350 mm of concrete.

GREEN BUILDING DOES NOT COST THE EARTH

SAVINGS start with HR50 from the beginning and continue for the life of the building. Reduced weight in wall construction lessens the demand for heavier engineering solutions as well as maintenance costs.

PROTECTION of the building is ensured by lowering thermal loads, reduced moisture content in walls and reduced risk of concrete cancer.

ENERGY demand as well as the size of the air-conditioning units is substantially reduced, that means low CO² emissions and a much smaller energy bill.

SYSTEM DMC offers a complete wall system, from textured to smooth finishes, integrated insulation and over 1500 colours. All products are pre-mixed to ensure spray application and world leading quality.





www.dmc-mix.com

Dry Mortar Company

PO Box 355 798
Riyadh 11383
Saudi Arabia

T +966 1 499 2374
F +966 1 499 2367
E info@dmc-mix.com