

# MEDITE®

## MR PLUS



**MEDITE MR PLUS** is a premium white primed moisture resistant MDF panel coated on both surfaces using an opaque UV cured coating system. Designed for use in humid conditions in accordance with MDF.H (Option 1) as defined in EN 622-5 so is ideal for applications such as kitchen and bathroom furniture, window boards and skirting boards and architectural mouldings. Developed at MEDITE's world class MDF facility in Clonmel, MEDITE MR PLUS broadens the range of the MEDITE family by delivering a high performance primed MDF product.

### APPLICATIONS

MEDITE MR PLUS matted low gloss topcoat is the perfect smooth base for further application of water or solvent borne paint products by brush, roller or spraying equipment. The premium primer used for MEDITE MR PLUS has increased opacity which will allow savings/reduction in the finished coating systems while maintaining the superior end product quality. MEDITE MR PLUS is successfully used for kitchen furniture, bathroom furniture, architectural mouldings, skirting boards, architraves, window boards and general interior joinery. MEDITE MR PLUS is suitable for interior humid conditions and is manufactured in accordance with EN 622-5. MEDITE MR PLUS is not suitable for external applications.

### PERFORMANCE

The test methods used for moisture resistant MDF includes a specialized cyclic test (EN 321) in which test pieces, after conditioning, are immersed in water at 20°C for 72 hours, frozen in air at -12°C for 24 hours, and heated in an air-circulated oven at 70°C for 72 hours. This cycle is carried out three times, followed by post conditioning and physical testing according to EN 622 test methods.

### APPEARANCE

MEDITE MR PLUS is distinguishable from other MEDITE MDF products by its green identification colour and high-quality primed coating on the surface.

### CONDITIONING

The moisture content of MEDITE MR PLUS is in the range of 5-9% at the time of manufacture. Changes in dimensions of wood and wood-based sheet materials occur due to changes in relative humidity. For this reason, MEDITE MR PLUS panels should be conditioned to the final environment for two to three days before processing and coating.

### MACHINING/FINISHING

Cut or profiled edges of MEDITE MR PLUS should first be sanded with 150-240 grit, prior to coating. The recommended coating system for the edges is to seal, prime and topcoat with de-nibbing between coats to produce a smooth finish. MEDITE MR PLUS should be prepared and coated as per coating manufacturer guidelines.

MEDITE MR PLUS must be sanded lightly and coated on all surfaces prior to installation, especially when placed next to damp plaster. Boards of this type are suitable for use in Hazard Class 1 and 2 environments of EN 335 provided an appropriate coating system is used.

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## QUALITY

MEDITE MR PLUS is manufactured under an NSAI registered I.S. EN ISO 9001 quality management system.

## SUPPLY

MEDITE MR PLUS is produced in the following standard thickness of 12mm and 18mm in sizes 1220x2440mm and 1220x3050mm. Other sizes and thicknesses are available on request subject to minimum order quantities.

## SERVICE

For further information and/or technical advice regarding processing and painting/finishing MEDITE MR PLUS please contact MEDITE Technical Support Personnel:

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All MEDITE MDF products supplied for use in the construction and civil engineering industries are CE marked according to the requirements of the harmonised European standard for wood based panels EN 13986. This provides the necessary assurance to customers and users that MEDITE conforms with the European MDF standard, EN 622-5 and meets all the essential requirements for the Construction Products Directive that are relevant to the product.

In accordance with the provisions of Third Party Certification required within the Final Regulations Order of the Airborne Toxic Control Measure (ATCM) by the California Air Resources Board (CARB) all MEDITE MDF products are CARB Phase 2 Compliant. The approved Third Party Certifier (TPC) Entwicklungsund Pruflabor Holztechnologie GmbH (EPH – TPC No W-08-010) is contracted by MEDITE to perform the quarterly assessment of the factory production control and to have the stipulated formaldehyde tests carried out by the accredited EPH test laboratory.

## MEDITE MR PLUS MDF 622-5 TYPE MDF.H (OPTION 1) TECHNICAL SPECIFICATION TABLE

PROPERTY	STANDARD	UNIT	3.0 to 4.0mm	>4.0 to 6.0mm	>6.0 to 9.0mm	>9.0 to 12.0mm	>12.0 to 19.0mm	>19.0 to 30.0mm
Internal Bond	EN 319	N/mm <sup>2</sup>	0.7	0.7	0.8	0.8	0.75	0.75
Modulus of Rupture	EN 310	N/mm <sup>2</sup>	27	27	27	26	24	22
Modulus of Elasticity	EN 310	N/mm <sup>2</sup>	2700	2700	2700	2500	2400	2300
Screw Holding Face	EN 320	N	-	-	-	-	1200	1200
Screw Holding Edge	EN 320	N	-	-	-	-	900	900
Moisture Content	EN 322	%	4 to 11	4 to 11	4 to 11	4 to 11	4 to 11	4 to 11
Thickness Tolerance	EN 324-1	mm	± 0.2mm	± 0.2mm	± 0.2mm	± 0.2mm	± 0.2mm	± 0.2mm
Thickness Swelling (24hrs)	EN 317	%	30	18	12	10	8	7
<b>DIMENSIONAL MOVEMENT</b>								
Length/Width	EN 318	%	0.40	0.40	0.30	0.30	0.30	0.30
Thickness	EN 318	%	6.0	6.0	4.0	4.0	4.0	3.0
<b>PROPERTY AFTER CYCLING TEST - EN 321</b>								
Thickness Swelling (24hrs)	EN 317	%	40.0	25.0	19.0	16.0	15.0	10.0
Internal Bond	EN 319	N/mm <sup>2</sup>	0.35	0.35	0.30	0.25	0.20	0.15

The results as listed above are based on the minimum specification requirements for all MEDITE MR PLUS MDF manufactured by MEDITE EUROPE DAC. All board parameters are in compliance with EN 622 parts 1 & 5 for type MDF.H (Option 1). As part of the MEDITE EUROPE DAC ongoing product development programme, the right to modify these product specifications without notice is reserved. MEDITE MR PLUS MDF conforms to E1 formaldehyde levels as well as also complying with the lower levels required by CARB phase 2.

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SMARTPLY®**  
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