



Our proof of industry standards

Powder Coating Resins - Indoor

ImFuse®



ImFuse® passing main Industry standards for the furniture market		
Panel type		Medite MDF 18mm
Coating		ImFuse® powder coating
Cure	ImFuse® process	1' 150°C
Appearance		
Flow	PCI (higher more appealing)	10
Gloss 60°	ASTM D523	5 (All gloss levels possible)
Mechanical properties		
Scratch resistance	ISO 4586-2 (>2N)	4N
Konig hardness	DIN 53157 >140 s.	205 s.
Impact test	ASTM D6643 Very dependent of substrate	10 i.p. 20mm ball
Nail scratch resistance		3-4
Adhesion, Gitterschnitt	ISO 2409 GT0	Gt 0
Wet heat resistance	EN 12721 4 @ 20 min 85°C	4-5
Dry heat resistance	EN 12722 4 @ 20 min 140°C	4 (slight yellowing)
Chemical resistance DIN 68 861 1B.		
Water: 16h	5	5
Ethanol, 48%: 1h	4	5
Coffee: 16h	4	4
Tea: 16h	4	4
Detergent: 16h	4	5
Ammonia, 10%: 2m	5	5
Ammonia, 10%: 10m	5	5
Ammonia, 10%: 1h	4	5
Acetic acid 10%: 1h	4	5
Total		43 out of 45



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¹Please see the "Guidance on Use of Covestro Products in a Medical Application" document.
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