

TIMBERWOOD PANELS

CleanTouch™ NanoTechnology Laminates DATA SHEET

This revolutionary laminate uses the science of Nanotechnology to enhance the performance characteristics of CleanTouch™.

Nanotechnology delivers an ultra matte finish that leaves no trace of fingerprints. This hard-wearing laminate has thermal recovery properties to repair surface scratches, making it ideal for high traffic areas in commercial and residential applications.

CleanTouch is available as a high-pressure laminate in a contemporary colour palette or pressed on to a range of substrates with a matching 1mm matte finish edging.

Applications

The anti-static and anti-bacterial properties of CleanTouch make it the ideal choice for healthcare and food industries, education sectors, childcare and community centres.

Designed for interior applications, including kitchens, bathroom and laundry cabinetry, doors, wall panelling, furniture, reception desks and commercial joinery.



PRODUCT ATTRIBUTES

High Pressure Laminate Attributes

Attribute	Specifics	Substrates
Nominal Sheet Size	2450 X 1230*mm	MDF
	3050 x 1230mm	Moisture Resistant MDF
	3660 x 1230mm	Fire Rated MDF
Approx. Weight	1.0kg/m ²	Standard Particleboard
Nominal Thickness	0.8mm	HMR Particleboard
Finish	Matte	Plywood

Sheet Sizes, Thicknesses & Finishes

Refer CleanTouch Availability Chart for the full range of colour options, sheet sizes, thicknesses and 1mm edging options.

Thermal Recovery Properties

NanoTechnology delivers thermal recovery attributes to repair scuffs and scratches. Simply follow the Care Instructions on Page 4 of this data sheet to restore the CleanTouch ultra matte, fingerprint resistant finish.

Anti-bacterial Properties

The CleanTouch surface is tested to ISO 22196 for anti-bacterial effectiveness. Test results confirm that after 24 hours of contact, over 99.99% of bacteria originally applied to the surface, are no longer detectable.

Certification

CleanTouch is independently tested for product performance to International Standard ISO 4586-2:1997[^] and JIS Z 2801:2009, ISO 22196 for measuring anti-bacterial activity.

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Product Performance

CleanTouch is a durable, hard-wearing surface. Its performance is tested to European and International Standards.

Performance Properties				
International Standard ISO 4586-2:1997 [^]				
Typical Properties for CleanTouch™	Test Method	Unit	Result	Comment
Thickness Tolerance			0.8mm, Tolerance ± 0.04mm	
Length & Width Tolerance		mm	>3.5mm per 1000mm	
Deflection Tolerance ¹			Tolerance ± 10mm	
Wear Resistance - Wear Value	1	g/100 Rev.	0.06	19.5±0.5°C; 50±1% RH
Wear Resistance - Wear Amount		No.	775	
Ball Impact Resistance		-	No Cracking	
Scratch Hardness		grams	120	19.5±0.5°C; 50±1% RH
Tensile Strength	1	Mpa	69	
Heat Resistance	1	-	No Change	19.5±0.5°C; 50±1% RH
Resistance to Hot Water		-	No Defect	
Resistance to Boiling Water: Mass Increase		%	≤5	
Resistance to Boiling Water: Thickness Increase		%	≤10	
Resistance to Boiling Water: Interlaminar Peeling		-	No Defect	
Light Resistance: Carbon Arc Type. 48 hour duration				
Appearance		-	No Defect	
Colour Difference (ΔE*ab)	2	-	0.3	
Gloss Level		@60° Angle	≈3	**
European Standards Test Results				
Scratch Resistance	EN 438-2:1991	N(min)	≥3	Level 2
Abrasion Resistance	EN 438-2:2005	Revolutions (min)	AT≈250 Turns	-
Resistance to Boiling Water	EN 438-2:2005	Appearance	No Visible Change	Level 5
Resistance to Steam	EN 438-2:2005	Appearance	No Visible Change	Level 5






¹ Deflection Tolerance for pressed board

** Some small shiny dots may occur & cannot be avoided

Anti-bacterial Performance

CleanTouch delivers very high levels of anti-microbial protection. When tested to ISO 22196 the results confirm an R value >3.0 (Pass = R value > 2.0). After 24 hours of contact time, more than 99.99% of the original bacteria applied to the surface are no longer detectable.

Anti-microbial Properties		
JIS Z2802:2012 Referred to in ISO 22196:2011		
Bacterial Organisms	International Reference No.	Results
Escherichia coli	ATCC 8739, DSMZ 1576	R>3
Staphylococcus aureus	ATCC 6538P, DSMZ 346	R>3
Salmonella choleraesuis (salmonella enterica)	DSMZ 5569	R>3
Pseudomonas aeruginosa	DSMZ 1253	R>3

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Stain Resistance

The ultra matte finish of CleanTouch laminates are tested for resistance to a range of staining agents. The results are tabled below, with each chemical tested to the recommended exposure time, up to 24 hours at room temperature.

CleanTouch was also tested to EN 438-2:2005 for Chemical Resistance. Groups 1, 2 & 3 Staining Agents were tested and achieved a Level 5 Result; with no visible change to the CleanTouch surface.


Chemical & Stain Resistance International Standard ISO 4586-2:1997^		
	Chemical	Test Result
Organic Chemicals	2% Merbromin (aqueous solution)	No Change
	Phenol (aqueous solution)	No Change
	Gasoline	No Change
Solvents	Acetone (industrial)	No Change
Cleaning Agents	1% Iodine (alcohol solution)	No Change
	10% Citric Acid (aqueous solution)	No Change
	10% Ammonia Solution	No Change
	Acid Sulfate Sodium (saturated aqueous solution)	No Change
Other	Pine Resin	No Change
Household Stains	Black Tea	No Change
	Coffee	No Change
	Milk	No Change
	Vinegar	No Change
	Olive Oil	No Change
	Crayon	No Change
	Office Ink	No Change
	Shoe Polish	No Change
	Dye	No Change

Handling

CleanTouch laminates are supplied with a protective surface film for transport and handling. This film may be left on or removed for pressing and post-forming. When cutting or machining use ventilation or extraction equipment to remove exposure to dust or airborne contaminants. Always wash hands thoroughly after handling.

Storage

CleanTouch should be stored horizontally with decorative surfaces face-to-face and covered with a pressure distribution panel to reduce the chance of deformation. Do not store in direct contact with the floor. Always store in a clean, dry area at a temperature not less than 18°C.

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CARE INSTRUCTIONS

General Surface Care

For general cleaning, simply remove spills and streaks from the CleanTouch surface using a damp cloth. To finish cleaning, wipe the surface with a dry cloth.

For stubborn stains or a build-up of dirt, we recommend using Timberwood industrial wipes by Würth. These easy-to-use wipes provide thorough surface cleaning without the need for soapy water or scrubbing and they're re-usable. Timberwood Würth wipes effectively remove grease, lubricants and adhesive residue from the CleanTouch surface.

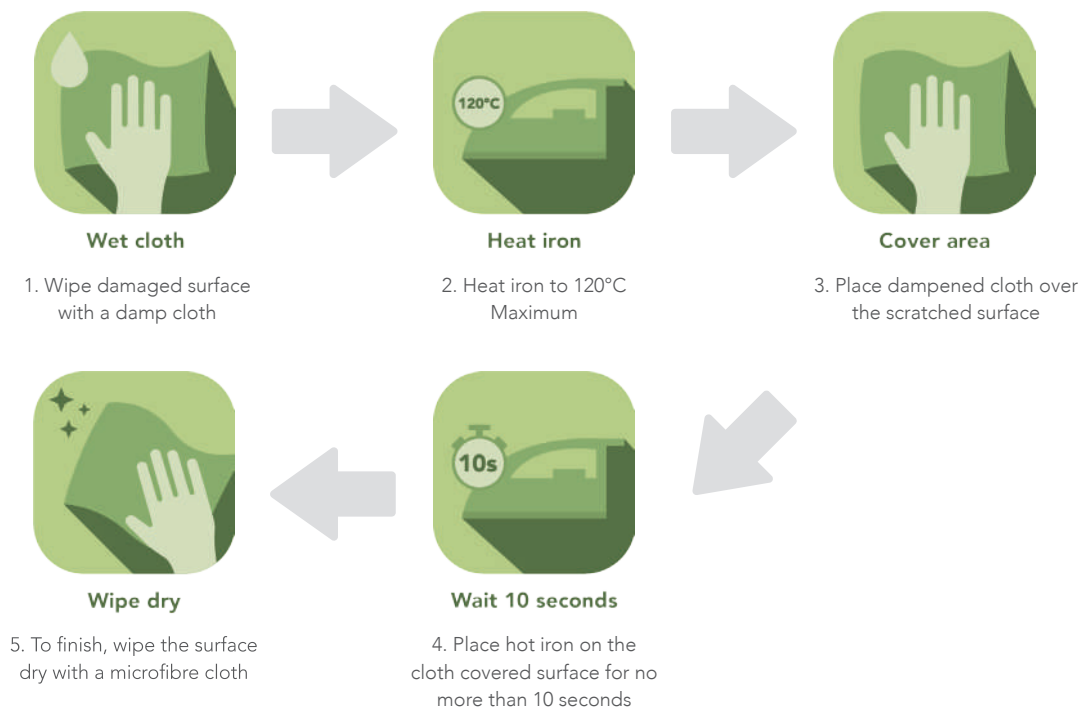


Restoring Ultra Matte Finish

Restore the ultra matt finish and remove minor scratches by simply rubbing any micro scratches on the CleanTouch surface with your finger to remove. For more stubborn scratches use a wet scouring pad (suitable for washing dishes) and rub the damaged area in a circular motion. To finish, wipe the surface with a dry microfibre cloth.

Repairing with Thermal Recovery

The NanoTechnology used in manufacturing CleanTouch laminates allow surface marks, scuffs and scratches to be repaired using our Thermal Recovery process. Follow these simple instructions to restore the ultra matte, fingerprint resistant finish.




During this process, steam and heat facilitates the recovery of the CleanTouch surface. Ensure the cloth covering the damaged area is damp and creating steam. Keep the iron in constant motion and remove the iron before all moisture has left the cloth. Please note, this repair method is suitable for scratches that have not penetrated the surface layer of the laminate.

Disclaimer:

The data in this document is believed to be accurate to the best of our knowledge, at the time of production. Product users should make their own assessment as to whether this product is suitable for their purposes. Appropriate OH&S and workplace practices are the responsibility of the fabricator.

[^]Relates to KS M 3803:2009 & KS M 3332:2009 (adopted International Standard is ISO 4586-2:1997)

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