

ULTRAGlaze

Specification Guide



“Only Comparable to Glass”.....

July 2018 update

www.ultraglaze.co.nz



ULTRAglaZe Full Information

Colour Range

There are 14 gloss and 5 Matt finishes in total:

Colour Range

Arctic Ice

Irish Cream

Tiramisu

Wild Cherry

Phantom Black

Cream

Champagne Metallic - Directional

Pearl Metallic - Directional

Onyx Metallic - Directional

Anthracite Metallic - Directional

Alabaster

Soft Grey

Lava

Cloudy Grey

Neve - Matt finish

Noir - Matt finish F2 only

Neo Glacier - Matt Finish

Napa - Matt Finish

Nitro - Matt Finish F2 only

Panel Glaze

.7mm F1S Arctic Ice

Description

ULTRAGlaze is an extruded lamination specific polymer sheet with an ultra high gloss acrylic top layer adhered to an E0 MDF-MR board using one of the most advanced adhesives available globally

Applications

ULTRAGlaze finished panels are suitable for interior vertical surface applications such as Kitchen Cabinets, Vanities, Wardrobe Doors, Furniture, Shop fitting and Office fit out.

Sheet descriptions

Date & Time of manufacture; Colour; Length; DS (Double sided) or SS (Single); S Acrylic source.



Note: For double sided sheets, the preferred face is the top sheet (above the description).

For our new 1 Face 1 Back option* the best face is as below.



Options

Ultraglaze is available in F1S and F2S gloss acrylic. For F1S a specialised matching ABS backing is used*.

The metallic range is directional. On the face ensure all arrows on the film are pointing in the same direction.

Thickness of each panel is 17.4mm +/- .2mm.

*From April 2018, some of our Face 1 colours transition 1F1B, as an alternative to 1 gloss face with an acrylic stipple back.

The gloss backing has a different scratch resistance rating to the front face but is the same colour match.

Standard Board Options

<i>Item</i>	<i>Backing</i>	<i>Thickness</i>	<i>Sheet Size</i>
1	Colour matched ABS acrylic*	18mm	2415mm x 1210mm
2	ULTRAglaZe both sides*	18mm	2415mm x 1210mm*
3	ULTRAglaZe 1F1B	18mm	2440mm x 1220mm

*Stock is transitioning to 2440x1220

Standards and Warrantee

ULTRAglaZe laminated board complies with AS/NZS 4386.1 Domestic Kitchen Assemblies for Appearance, Flatness, Wood Substrate and the Adhesive Bonding System.

Zealand Distribution Ltd warrantees Ultraglaze for a period of 7 years against delamination of the acrylic face and colour fading caused by indoor exposure to UV.

We are proud of the finished quality of Ultraglaze. As with any decorative surface a reasonable approach needs to be taken to determine if a panel is defective. Viewing the panel whilst standing no less than 1.2 meters away in normal daylight conditions, a defect must be clearly visible to the eye in order to activate a claim.

ULTRAglaZe Physical Properties

<i>Properties</i>	<i>Specification</i>	<i>Method</i>
Specific Gravity	1:09	ASTM D792
Water Absorption	<0.5%	ASTM D570
Surface Hardness	6H*	Pencil Hardness
Heat Distortion Temperature	85*c	ASTM D648
Service Temperature	70*c	Continuous
Burning Resistance	94HB	UL 94
Gloss Level	90%	Viewed at 60*

ULTRAglaZe Performance Properties

<i>Properties</i>	<i>Specification</i>	<i>Method</i>
Bond Strength	100N (25 N min)	AS/NZS 4266.28
Surface soundness	1.25 mpa (0.9 mpa min)	AS/NZS 4266.7
Abrasion Resistance	<1.0% loss of gloss	500 cycles
Stain Resistance	No effect	AS/NZS 4266.25
Steam Resistance	No change after 30 mins	AS/NZS 4266.23
Cracking Resistance	No effect	AS/NZS 4266.24
Dry Heat Resistance	No loss of gloss or colour change	AS/NZS 4266.26

ULTRAglaZe User Guide

General

ULTRAglaZe is supplied with a protective film which should not be removed until the project is complete.

Best results for machining ULTRAglaZe High Gloss panels is achieved by using high speed very sharp carbide tools and moderate feed rates.

An ULTRAglaZe laminated panel may react to severe changes in humidity and temperature. A curvature of up to 1.5mm/1000mm may occur in some extreme environmental conditions. This will return to the Standard parameters on temperature returning back to standard range.

Excessive curvature can be reduced by avoiding long narrow panels and by ensuring adequate hinging and fixing support is provided.

Care and Handling

ULTRAglaZe finished panels can be stored horizontally or vertically but should be well supported at all times.

- Leave protective film in place until the project is complete.
- Do not store panels outside.
- Avoid sliding the panels on the outer face surface.

Cleaning

Best results will be achieved using Vuplex Cleaner with a micro-fibre cloth or wet chamois with a solvent free non-abrasive Cleaner or detergent. Or simply use a micro-fibre cloth and warm water.

- Avoid the use of brushes, scourers or scrapers.
- For extra care, apply Vuplex on a weekly basis. This will clean, seal, protect and maintain the ULTRAglaZe finish in an optimum condition. Vuplex cleaner and microfiber cloths are available from ULTRAglaZe distributors.

Scratch Resistance

Technical Properties of:		SENOSAN® AM1800TopX-1		
Construction:		Coextruded, highly scratch and chemical resistance furniture film with high gloss surface. APPLICATION AREA: Flat lamination on different substrate materials for interior furniture. DIMENSIONS: Thickness: 0,80 to 1,00 mm Width: max. 1.210 mm		
Edition / Date:		1 / 14-02-2014		
Characteristics		Value	Unit	Test method
OPTICAL PROPERTIES				
Scratch resistance	method A	class1.loss of gloss <20%		IHD W-466
Top surface gloss	(60° gloss master)	> 85	GLE	DIN 67530
Colour fastness, resistance to weathering Delta E (furniture panels - indoor application)	total colour difference after 200h Xenon test	DE* <1,7		ISO 4892-2
Haze		< 10		DIN 67530
THERMAL PROPERTIES				
Resistance to dry heat	rating group 7 D	75	°C	DIN 68861/
Resistance to wet heat	rating group 8 B	70	°C	DIN 68861/T8
BURNING BEHAVIOUR				
Flammability classification*		n.d.		UL 94
MISCELLANEOUS PROPERTIES				
Resistance to steel wool	load: 1kg; strokes: 20; steel wool type: 00;	class 1. no changes or scratches visible		SENO COMPANY TEST METHOD QPA- 25-LT
Behaviour to water vapour	module 2	no changes visible		AMK
Chemical resistance	rating group 1 B	No visible changes		DIN 68861/
NOTE				
<i>Senosan® furniture surfaces are supplied with a tried and tested UV protection system. In the case of exposed applications such as shop windows, glazed conservatories or generally very large window areas with high light flow and thereby high UV and temperature influence, an accelerated ageing of the material can occur. The values stated in this document refer to the flat unformed sheets. Because of the influence of the application technology and the core materials used, these values may differ slightly from the finished product.</i>				

Processing

ULTRAGLAZE finished panels can be saw cut, drilled or router cut. Use very sharp carbide tools and moderate feed rates. Most recommended method is nested base CNC machines

Installation

- For standard size doors, adequate fixing should be provided at no greater than 600mm centres.
- For larger doors, please follow the standards table below.
- We recommend an air gap of 6mm adjacent to ovens and other heat sources.
- Do not over tighten handles as it may cause an unsightly dip in the high gloss surface.

Hinge standard centres

<i>Up to 800mm</i>	2 hinges
<i>800 to 1300mm</i>	3 hinges
<i>1300 to 1800mm</i>	4 hinges
<i>1800 to 2100mm</i>	5 hinges
<i>2100 to 2440mm</i>	6 hinges

- Always test hinge boring tools to ensure a clean cut is achieved.
- Reliable results will be achieved by drilling or boring through a thin MDF sacrificial block.

Router Cutting

Router cutting is the preferred method for cutting ULTRAglaze laminated board.

- Router cut using a feed rate of 10 to 15 metre/minute with a spindle speed of 20,000 rpm.
- Solid carbide router cutters will deliver the best finish.
- Twin flute compression cutters are ideal as they minimise the chance of chipping at the edge and eliminate any feathering of the masking material on either side of the sheet.
- If using a standard straight single or twin flute cutter, it is recommended to position the board ULTRAglaze Face down to avoid any feathering of the masking film

Saw Cutting

- Use very sharp carbide tipped blades with 3 to 5 teeth per cm.
- Using a 300mm diameter blade at a speed of 3,200 rpm has delivered a good result.
- Using a scribe blade will avoid chipping of the backing layer.

Drilling

- Drilling can be done using high speed steel or carbide tipped drills.
- Best results will be achieved using drills with a tip angle of 110 to 130 degrees.
- Use slow to medium speeds to avoid overheating the material.

ULTRAglaZe Edge detail Options

Edge Detail Options

*Matching Edge ABS and Laser
Glass Bead Edge - White*

The matching and the Glass bead edge tape may be ordered unglued by the 50 mtr roll.

Edge Finishes

ULTRAglaZe Ultra High Gloss doors are finished in a wide variety of different ways. ULTRAglaZe has partnered with global edge finishing suppliers to create an extensive and diverse range.

All ULTRAglaZe compatible edge tapes are of premium quality and offer high resistance to heat, abrasion, impact and colour fade.

When correctly applied the edge tapes will meet or exceed the AS/NZS 4386.1 for Domestic Kitchen Assemblies.

Matching ABS Coloured Edge Tape

Matching coloured edge has been developed in high gloss finished ABS. Size is 22 x 1.0mm on 50 and 100 metre rolls. We have a full range of matching edge tapes available in U/G and P/G (on request).

Laser

Available in all whites, matt finishes and solid gloss colours.

Acrylic edging

All metallic colours are available in 1mm matching acrylic edging. This provides a perfect match to our metallic range.

Glass Bead Edging

Glass Bead Edge offers the realistic appearance of a panel of glass adhered to the face of the door minus the weight and expense.

Size is 23 x 1.3mm

ULTRAglaze

ENVIRONMENTALLY RESPONSIBLE HIGH GLOSS DECORATIVE PANELS.

ULTRAGLAZE is a technologically advanced product consisting of E0 MDF-MR board laminated using PUR adhesive to a co-extruded, semi-rigid thermoplastic polymer sheet.

The decorative surface of ULTRAglaze consists of a .7mm thick ABS (acrylonitrile butadiene styrene) coloured layer, which is permanently fused with a clear ultra high gloss Acrylic (Poly Methyl Methacrylate) top layer. ULTRAglaze' polymer decorative layer is an inert material and does not release any emissions into the environment during manufacture or whilst in use. It is hygienic and does not promote bacterial growth or transmission. All colour pigments used in ULTRAglaze do not contain heavy metals such as lead or cadmium.

ULTRAglaze offers significant environmental advantages compared with other popular high gloss finishes. ULTRAglaze manufacture produces no VOC's unlike two pack spray paint, and ULTRAglaze can be recycled unlike high pressure laminates which must be incinerated or placed into landfill at the end of their life. The PUR adhesive system does not emit any volatiles during the lamination process or during the life of the doors and panels. The ULTRAglaze decorative material can be treated as ABS for recycling purpose and falls under the Styrene group of polymers. ULTRAglaze decorative sheet can be recycled using mechanical means by grinding and pelletizing for reuse in a multitude of extruded or injection moulded products.

ULTRAglaze recycling process only consumes around 15% of the original energy consumption required to manufacture the initial decorative sheet material. ULTRAglaze can be cleaned and maintained using warm soapy water, and does not require the use of harsh or volatile chemicals. ULTRAglaze can be refinished from scuffing and scratching many times and will remain functional for many years.

ULTRAglaze' decorative sheet and E0 MDF-MR board is wholly manufactured under an Environmental Management System, which has been independently accredited to ISO 14001.