

Ultraglaze

Technical Data Sheet

BPIR class 1

Ultraglaze is a premium double-sided panel consisting of an extruded acrylic sheet that is laminated onto a Prime MDF substrate.

Ultraglaze panels are suitable for vertical interior cabinetry and come in a range of high-gloss and matt options.

Product Name: Ultraglaze

Product line and identification:
Colour name and finish

1. Intended Use

Ultraglaze is intended for use on doors and panels for interior cabinetry such as kitchens, bathrooms, laundries and furniture in residential applications. Ultraglaze is also ideal for commercial applications such as reception areas.

2. Limitations

Ultraglaze is **NOT** suitable for use in exterior applications or interior applications where ambient environmental moisture content is likely to be elevated for extended periods such as interior swimming pool, sauna or industrial wet areas.

While Ultraglaze panels have excellent water and vapour resistance care should be taken not to expose raw edges or edging to high moisture applications.

This data sheet should be read in conjunction with the limitations outlined in the Prime MDF Standard and Prime MDF MR Technical Data Sheet.

Installation

Specific installation instructions are not provided as the product is primarily used for the manufacturing of kitchens, furniture and fittings.

3. Manufacture

The acrylic film used for Ultraglaze is made in Europe by Senosan, a leading manufacturer of acrylic films. The acrylic sheets are pressed onto Prime MDF Standard or a MDF MR (moisture resistant) substrate using a polyurethane-based adhesive in a dedicated Class 100 Clean Room at New Zealand Panels Group Auckland manufacturing facility.

Manufacturer: New Zealand Panels Group

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4. Physical Properties

The physical properties and characteristics below are for the acrylic surface only. These should be read in conjunction with the Prime MDF Technical Data Sheet.

The following table is intended to be indicative of the properties of the colours and finishes within the range.

Ultraglaze		Solid Colours	Metallic Colours	Test Method
Density		<1.11 g/cm ³	<1.11 g/cm ³	ISO 1183-1
Scratch Resistance Premium	Gloss	Class 1	Class 1	IHD W-466
	Matt	Class 4B	Class 4B	DIN 68861/T4
Scratch Resistance Standard	Gloss	Class 4E	n/a	DIN 68861/T4
Top Surface Gloss (viewed at 60°)	Gloss	>85	>85	DIN 67530
	Matt	<5	<8	
Colour fastness, resistance to weathering (Delta E)		DE* <1,7	DE* <1,7	ISO 4892-2
Resistance to Steel Wool - Premium only		No visible change	No visible change	SENO Company Test
Resistance to dry heat - rating class 7D (75°C)		No visible change	No visible change	DIN 68861/T7
Resistance to wet heat - rating class 8B (70°C)		No visible change	No visible change	DIN 68861/T8
Behaviour to water vapour		No visible change	No visible change	AMK
Chemical resistance		No visible change	No visible change	DIN 68861/T1

5. Panel and Substrate Options

Ultraglaze is pressed onto low formaldehyde Prime MDF Standard or Prime MDF MR (moisture resistant) substrate with an emission rating of E0.

VOC (MDF)	Standard	Rating	Emissions
Formaldehyde	AS/NZS 1859.2	E0	≤0.5mg/lt

Ultraglaze panels are available in the following options:

- Premium acrylic both sides
- Premium front/Standard back
- Standard front/Melamine back (Panelglaze – selected Standard gloss colours only)

NOTE: Premium acrylic has superior scratch resistance compared to Standard. Refer to Section 4.

Due to variations in the thickness of the various finishes of acrylic film, the final thickness of the pressed panels can vary. For this reason, it is highly recommended that before machining, the panel thickness is measured, and the depth of cutters adjusted accordingly. Refer to the chart below for the nominal panel and film thicknesses. For specific substrate tolerances refer to the Prime MDF Technical Data Sheet.

Acrylic surface finish	Film thickness (mm)	Pressed panel thickness		
		16mm	25mm	30mm
Gloss	0.7	17.4mm	26.4mm	31.4mm
Matt	0.5	17.0mm	26.0mm	31.0mm
Metallic - Gloss	0.8	17.6mm	26.6mm	31.6mm

CAUTION: Due to a change in the way Senosan apply the high performance lacquer to the MATT range of Ultraglaze colours there is an uncoated strip approximately 6mm wide along each edge of the panel. This strip must be trimmed from the panel before further processing. This does not affect the usable panel size which will remain at over 2700 x 1200 or 2400 x 1200.

6. Directional Orientation

The metallic colours within the Ultraglaze range have a directional orientation which is identified by arrows marked on the protective film. It is important that all panels and doors are cut from the sheet with the arrow pointing in the same direction, typically to the top of the door or panel, to avoid a change of hue caused by a different viewing and reflective angle.

7. Compliance

New Zealand Building Code, Clause B2 Durability: Ultraglaze acrylic panels meets the durability requirements for interior linings of five years in accordance with B2 3.1 (c).

Section 26: Ultraglaze decorative acrylic panels are NOT subject to a warning or ban under Section 26 of the Building Act.

8. Sustainability

The MDF substrates used by Ultraglaze are manufactured from plantation grown timber cut from sustainable forests

As a leader in the panel industry New Zealand Panels Group adopts and promotes sustainable business practices designed to minimise our environmental impact, and work towards becoming carbon-negative.

The company continues to search out alternative products to meet the growing needs of our environmentally conscious customers, while creating processes in our manufacturing plant that are mindful of the environment for future generations.

Some of the sustainable principles include:

- The use of sustainably sourced timber veneer, melamine and substrates.
- Supplying low formaldehyde substrates. Both MDF Standard and MDF MR are rated EO.
- Reducing our manufacturing waste.
- Developing new processes to minimise energy consumption.
- Our purpose-built plant in East Tamaki features a number of initiatives that have significantly improved our environmental footprint, including a GreenStar 4-star rating for the building.
- All our manufacturing sites only use electricity from 100% certified renewable resources.

9. Cleaning and Care Guide

Ultraglaze is hard wearing and easy to clean. To maintain the surface in pristine condition, clean up spilled food and drinks immediately using a damp cloth and detergent (dish-washing liquid). Splashes from cooking fats and oils should be cleaned up with warm water and detergent before they cool and set.

Everyday cleaning: Wipe down with warm water using a cotton cloth.

For spills, splashes, greasy marks and general grime: Wipe down with warm water and detergent (dish-washing liquid), or a general-purpose spray and wipe cleaner, then rinse by wiping down with warm water using a clean damp cotton cloth.

- Do not use abrasive cream cleansers such as Jif, Ajax, or Chemico.
- Do not use Brasso, furniture wax, polishes or oils.
- Do not use steel wool, abrasive sponges (melamine/magic sponges), scourers, scrapers, brushes, paper towels or steam cleaners.
- Do not dry wipe or rub the surface excessively as this may cause static build-up.

Handy Hint:

- Wipe down with warm water as this evaporates quicker and is less likely to leave streaks.
- Use cotton cloths not synthetic microfibre cloths to avoid creating a static charge on the surface.
- In hot dry environments dust may be attracted to the acrylic surface due to static electricity. To dissipate the static charge wipe surface with a cotton cloth and warm water. If static persists increase humidity.

10. Health and Safety

Ultraglaze should be handled in accordance with the Ultraglaze Safety Data Sheet (SDS).

Dust from wood and resins used in the manufacture of Ultraglaze panels are known health hazards. When machining Ultraglaze sheets, including drilling, planing, routing and sawing, the use of on-tool extraction and containment of all dust generated is recommended. Alternatively a suitable class P1 or P2 respirator should be worn along with non-fogging safety glasses.

To avoid cuts from sharp edges, suitable protective gloves should be worn.

Both the MDF Standard and MDF MR substrates meet the formaldehyde emission class EO – less than 0.5 mg/litre.

11. Handling and Storage

Store only in dry interior conditions on a minimum of three bearers across the full width of the sheet keeping the sheets flat at all times.

- Do not store or transport panels in direct sunlight.
- Avoid leaning sheets against walls.
- Treat sheets as a finished product and avoid dragging sheets on the outer surface or across each other or other surfaces.
- Store sheets where construction traffic and construction activity will not damage sheets.

NOTE: Ultraglaze comes with a protective film on the face of the acrylic sheet.

The protective film must be left on during both machining and installation and not be removed until all trades have finished and the cabinetry is ready for use.

12. Warranty

New Zealand Panels Group offers a 10 year warranty on its Ultraglaze panels provided they are used for their intended purpose for interior cabinetry and installed in accordance with best practice, in a tradesman like manner and in accordance with relevant Standards and New Zealand Building Code requirements. To view a copy of the full warranty, please download from our website at www.ultraglaze.co.nz.

13. Technical Support

Further information and technical support is available by contacting Ultraglaze on 0800 477 463. This publication was updated in October 2024. Please ensure that you are using the latest publication by contacting Prime Panels or downloading the latest Technical Data Sheet from www.ultraglaze.co.nz. Ultraglaze, a business unit of New Zealand Panels Group, reserves the right to make changes to information in this publication without notice.

14. Handy Links and References

- Ultraglaze warranty document
www.ultraglaze.co.nz
- Ultraglaze SDS
www.ultraglaze.co.nz

Contact us

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