

Luméa Shell Veneer Specification

A decorative veneer suitable for walls, furniture and luthier inlay, jewellery components and craft.

Sizes	
Standard	300x300mm 200x200mm 230x130mm
With peel & stick back	200x100mm 100x100mm 100x50mm
Thickness	0.4mm +/-0.1mm
Size tolerance for standard	an extra 5-10mm is added to the standard sizes to allow for rough edges
Construction	Shell laminate is specially bonded thin slices of shell and coated with a urethane finish.
Backing	Custom water based paint, or Custom two pack acrylic urethane
Finish	
Paua natural	We use a UV cured acrylic gloss urethane. Spray coated as 100% solids coating with excellent resistance to abrasion, moisture, petroleum solvents and mineral and vegetable oils, alkalis and acids. UV stable.
Other Shell types	We use Urethane Acrylic Gloss finish. A unique high performance two component finish coat with excellent resistance to abrasion, moisture, petroleum solvents and mineral and vegetable oils, alkalis and acids. UV stable.
Cutting	
<i>Shell is a brittle material, care in cutting is required Experiment with a small piece first</i>	<ul style="list-style-type: none"> - for straight lines use a sharp craft knife and ruler on a hard surface. Draw knife gently across 3 or 4 times, scoring shell deeper each time until it separates. - use sharp scissors to cut curves. Using masking tape minimizes fractures to edges. - high speed fine tooth blade, e.g. router or circular saw with diamond blade. - laser cutting machines – very precise detailed designs, logos and inlay work. - double sided tape on back of laminate is useful for protecting shell in some cutting situations.
Fixing	
Preparation	Ensure the acrylic back of the sheet is finely sanded as well as the surface you are applying the shell veneer to. Surfaces to be free of dust, oils, grease and lubricants
To Wood, MDF, Metal, Glass &Acrylic	Use clear Contact Adhesives ¹ , Epoxy Resin ² or double-sided tape ³ . Note: clear glue will reduce possible effect on laminate discolouration.

¹ e.g. Bostik Super Clear Contact, Bostik Simson Construction Adhesive, Bostik 1456 (20L industrial use), Bostik #2 Solvent; Bostik Tuf-As-Nails & Bostik Seal and Flex (better for uneven surfaces)

² e.g. Epiglu, Epiglass and various other brands, beware of quality and longevity. Select non-yellowing resins.

³ e.g. Double Sided Tissue 1359 high tack modified acrylic.

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To Fibreglass

Use Polyester Resin⁴.

Please ensure compatibility of glue with the substrate material or the material you are applying the sheet to.

Care

Use only non-abrasive cleaners, eg spray and wipes
Scratched or worn veneers can be recoated by lightly sanding and applying a clear two pack urethane
The veneer is resistant to cold and boiling water and suitable for use in bathrooms and kitchens.

Limitations

- Not suitable for outdoors.
- Recoating the surface with resin products eg doming or polyester resins may not bond. Please contact us to discuss options for sheets without top coat
- Not suitable for places where intense heat may occur, such as fire surrounds, above oven hobs or on benches.
- As a natural product, shade, pattern and minor size variation are inherent characteristics.
- Not suitable for salt or chlorine swimming pools.
- Product should not be submerged in water or subject to high amounts or continual water without additional protection.
- Hot items should not be placed on sheet without protective coating.
- If placed in direct sunlight shell products may fade. Not always suitable for use as flooring material or bench tops subject to heavy use.

These recommendations are a general guide only. For more specific details please contact us.

⁴ e.g. Gelcoat