

BRISTOL FINISH™

*High Performance Wood Coatings
for marine and architectural use*

TECHNICAL DATA & APPLICATION GUIDE

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ABOUT BRISTOL FINISH WOOD COATINGS

The renowned qualities and superior components of BRISTOL FINISH wood coatings ensure the finest finish possible. The following techniques are provided to assist the user in obtaining optimum results while using BRISTOL FINISH wood coatings.

PRODUCT TIPS

Never shake BRISTOL FINISH wood coatings. Gently hand stir thoroughly before and during use. Pour the amount of product to be used through a paint strainer into a paint pot. Close the original can immediately. Never pour unused product, especially catalysed product back into the original can, but place in a separate jar or container. The original product should be kept as fresh as possible in the original can.

Always adhere to the correct mixing ratio for BRISTOL FINISH Traditional Amber Urethane: 8 parts base to 1 part catalyst. This ratio is clearly stated on the packaging. It is important not to over-catalyse, or under-catalyse this product, as coating problems may occur. Always catalyse this product before the inclusion of additives, such as BRISTOL FINISH Tropical Reducer, Satin Additive or Accelerator.

THINNING

BRISTOL FINISH wood coatings should be thinned where stated in the technical data sheets, and when desired to assist with ease of coating application. Mineral Turpentine must not be used for thinning any BRISTOL FINISH product. When thinning BRISTOL FINISH Traditional Amber Urethane, use BRISTOL FINISH Tropical Reducer, as loss of gloss, darkening and adhesion failure of the coating will otherwise occur. Acetone or MEK may be used as an alternative for thinning, but only for initial and build-up coats of BRISTOL FINISH Traditional Amber Urethane.

COLD WEATHER / LACK OF TIME / HUMID CONDITIONS

To advance hardness and adhesion when time is of the essence, or to facilitate the curing process during adverse conditions, the addition of BRISTOL FINISH Accelerator to BRISTOL FINISH Traditional Amber Urethane is advised. This additive will not affect flow, gloss or longevity of the coating.

AVOIDING “WRINKLES”

Wrinkling occurs when a wet film surface dries too quickly, due to the application of a coat which is too thick or unevenly applied, leaving the underside wet. The exceptionally high solids content of BRISTOL FINISH wood coatings provides minimal loss of film thickness as a result of solvent release. It is therefore of utmost importance to apply thin, even coats.

BRUSHING TECHNIQUE

BRISTOL FINISH wood coatings possess unique flowing qualities. These qualities are achieved when the coating is thinned correctly, applied evenly and worked as little as possible. Generally speaking, brush the coating quickly in one pass, allowing the bubbles and brush marks to “flow-out” unaided by any further brushing action. Perfecting this technique will produce mirror-like results with remarkable ease.

CARE AND MAINTENANCE FOR QUALITY BRUSHES

Good quality brushes deserve the best treatment. A variety of quality brushes are available on the market. Scomar Distributors imports WERDOL Chinese Boar Bristle brushes, and use and recommend these brushes for use with BRISTOL FINISH wood coatings.

WERDOL Brush bristle are of the highest grade, noted for softness from their ends being delicately split; a very rare mark of manufacturing excellence. By hand setting the bristles into the nickel plated furrel, these brushes are able to provide the greatest possible holding capacity for paint and varnish application. Hard synthetic rubber which is fully impervious to the solvents of today’s common urethanes and epoxy finishes, is used to fill the furrels and hold the bristles in place. The brush is hand chiseled in a way that always guarantees an even edge when bending the bristles in any direction.

Any new brush will contain factory dust and a few loose hairs. Great care must be taken to make sure these contaminants are removed prior to use. Flick the new brush bristles gently to release dust particles and loose hairs. Do this until you are certain most of these contaminants have been removed from the brush. Rinse the brush well in Acetone or BRISTOL FINISH Tropical Reducer, and spin the brush well using a paint brush spinner.

After using the brush, immediately immerse it into Acetone or BRISTOL FINISH Tropical Reducer. The brush may be left here for a short time, but cleaning should begin as soon as possible. Pick up the brush and bend the bristles gently side to side, allowing the Acetone or BRISTOL FINISH Tropical Reducer to run down the heel and towards the handle. This will help release any product which has collected in the furrel. It is necessary to do this until the brush is cleaned of most paint or varnish material. Immerse the brush again in a clean Acetone or BRISTOL FINISH Tropical Reducer bath. Repeat the cleaning procedure. After this second bath is used, immerse the brush into a third and final bath. After performing this cleaning procedure, the third bath should remain reasonable clear, indicating that the brush and furrel has been sufficiently cleaned.

No matter how diligently a brush is cleaned, it should never be used for varnish work if it has been used for painting, or vice-versa. The brush will contain a small amount of material left over that will flow out next time it is used.

A brush once used should never be allowed to dry. BRISTOL FINISH Tropical Reducer is best for storing them in, by using a paint brush container made for this purpose. The hole in the brush handle will enable the brush to hang in the liquid, so that the bristles do not touch the bottom of the container.

BRISTOL FINISH

TRADITIONAL AMBER URETHANE

BARE WOOD APPLICATION

Use a mild wood cleaner to ensure the surface is free of moisture, oils and other contaminants before sanding. Sand wood as required to expose a fresh surface, with final sanding to a 240 grit profile, when dry sanded. Ensuring the wood surface is free of dust, blow down with clean, dry, filtered air and wash with a Surface Prep solution using the two-cloth method (one wet, one dry). Clean, non-drycleaned rags should be used, or commercial cleaning cloths such as 3M Automotive Wipes, which are lint free.

1. To a clean, dry surface, apply 1 coat of Bristol Finish, thinned 50% to allow necessary wood grain fill. Repeating this process, apply a second coat thinned 40%, a third coat thinned 30%, a fourth coat thinned 20%, and a fifth coat thinned 10% to assist further wood grain fill. Allow a minimum of 1 hour, but no longer than 24 hours between coats. No sanding is required if overcoating occurs within this time period. If this time is exceeded, sand to a 240 grit profile, when dry sanded. Wash with a Surface Prep solution using the two-cloth method (one wet, one dry), before the next coat application.
2. To a clean, dry surface, continue to apply a minimum 5-6 coats of BRISTOL FINISH Traditional Amber Urethane. Thin to a maximum of 10% with acetone or BRISTOL FINISH Tropical Reducer, if desired. More coats may be required, especially for porous and problematic timbers, such as mahogany. Allow a minimum of 1 hour, but no longer than 24 hours between coats. No sanding is required if overcoating occurs within this time period. If this time is exceeded, sand to a 240 grit profile, when dry sanded. Wash with a Surface Prep solution using the two-cloth method (one wet, one dry), before the next coat application.
3. Before application of the final finishing coat, allow a minimum of 48 hours from the previous coat, then sand the surface to a 240 grit profile, when dry sanded. Wash with a Surface Prep solution using the two-cloth method (one wet, one dry). Use tack cloths prior to painting. Apply 1-2 final coats. If a reduced gloss finish is desired, use BRISTOL FINISH Satin Additive in the final coat. Refer to the relevant technical data for use of this product.

PREVIOUSLY VARNISHED SURFACE

If the original varnished surface is intact without discolouration or signs of severe deterioration, use an industrial detergent to ensure the surface is free of moisture, oils and other contaminants before sanding. Sand the existing varnished surface to a 240 grit profile, when dry sanded. Ensuring the wood surface is free of dust, blow down with clean, dry, filtered air and wash with a Surface Prep solution using the two-cloth method (one wet, one dry). Clean, non-drycleaned rags should be used, or commercial cleaning cloths such as 3M Automotive Wipes, which are lint free. Full removal of the existing coating to bare timber will be necessary if the original varnished surface is breaking down, or the varnish and/or timber is discoloured or damaged. If this is required, refer to above "Bare Wood" application steps.

1. To a clean, dry surface, apply a minimum 6-7 coats of BRISTOL FINISH Traditional Amber Urethane. Thin to a maximum of 10% with acetone or BRISTOL FINISH Tropical Reducer, if desired. More coats may be required for porous and problematic timbers, such as mahogany. Allow a minimum of 1 hour, but no longer than 24 hours between coats. No sanding is required if overcoating occurs within this time period. If this time is exceeded, sand to a 240 grit profile, when dry sanded. Wash with a Surface Prep solution using the two-cloth method (one wet, one dry), before the next coat application.
2. Before application of the final finishing coat, allow a minimum of 48 hours from the previous coat, then sand the surface to a 240 grit profile, when dry sanded. Wash with a Surface Prep solution using the two-cloth method (one wet, one dry). Use tack cloths prior to painting. Apply 1-2 final coats. If a reduced gloss finish is desired, use BRISTOL FINISH Satin Additive in the final coat. Refer to the relevant technical data for use of this product.

BRISTOL FINISH

TRADITIONAL AMBER URETHANE

A versatile, two-component, clear wood coating suitable for all timbers. It combines the durability of a two-component coating, with the easy use of a single-component product. With no sanding required between coats, and a 1 hour minimum recoat time, it builds extremely quickly, meaning less time, labour and product is required. It may be applied as a new system, or over existing single and two-component coatings as either a build-up and/or finish coating. Tested at a "maintenance-free" life of 24 months in the Florida sun (elements similar to tropical Australia), it has high UV resistance and may be used for interior or exterior applications.

Colour & finish	Amber Clear / High Gloss Range of gloss levels available when using BRISTOL FINISH Satin Additive
Package	1 quart kit <i>1.07L appr</i> 1 gallon kit <i>4.28L appr</i>
Mixing ratio by volume	8 Part A : 1 Part B
Pot life	At 29°C, 2 hours At 21°C, 4 hours
Mixed solids per litre	56% by volume
Flash point	39°C
Recommended use	Provides excellent adhesion to, and filling of all woods with interior or exterior exposure. Suitable for building and/or finishing coats.
Methods of application	Brush / conventional or airless spray
Recommended application	Brush
Required thinners	BRISTOL FINISH Tropical Reducer (for brush or spray application) Acetone / MEK for initial and build-up coats <u>only</u>
Thinning ratio - brushed	NEW TIMBER: First coat 50%, second coat 40%, third coat 30%, fourth coat 20%, fifth coat 10%. Additional coats thin if required up to 10%. EXISTING FINISH: Additional coats thin if required up to 10%.
Clean up	Acetone / BRISTOL FINISH Tropical Reducer
Theoretical coverage	22m ² per quart kit, per coat
Application Temperature	Between 0°C and 49°C during application. For cold or humid conditions, the use of BRISTOL FINISH Accelerator is advised.
Tape removal	At 21°C, 24 hours
Tack free	At 29°C, 1 hour

BRISTOL FINISH CLASSIC CLEAR WATER-BASED INTERIOR GLOSS URETHANE

BARE WOOD APPLICATION

Use a mild wood cleaner to ensure the surface is free of moisture, oils and other contaminants before sanding. Sand wood as required to expose a fresh surface, with final sanding to a 240 grit profile, when dry sanded. Ensuring the wood surface is free of dust, blow down with clean, dry, filtered air and wash with a Surface Prep solution using the two-cloth method (one wet, one dry). Clean, non-drycleaned rags should be used, or commercial cleaning cloths such as 3M Automotive Wipes, which are lint free.

1. To a clean, dry surface, apply 2 coats of either BRISTOL FINISH Traditional Amber Urethane or WERDOL Rapidclear Varnish as a sealer coat. Refer to the products' technical data sheets, for bare wood application. Final sanding of either these products should be to a 240 grit profile, when dry sanded. Wash with a Surface Prep solution using the two-cloth method (one wet, one dry), before the next coat application.
2. To a clean, dry surface, apply a minimum 5-6 coats of BRISTOL FINISH Classic Clear Water-Based Interior Gloss Urethane. More coats may be required, especially for porous and problematic timbers, such as mahogany. Allow a minimum of 1 hour, but no longer than 4 hours between coats. No sanding is required if overcoating occurs within this time period. If this time is exceeded, sand to a 240 grit profile, when dry sanded. Wash with a Surface Prep solution using the two-cloth method (one wet, one dry), before the next coat application.
3. Before application of the final finishing coat, allow a minimum of 4 hours from the previous coat, then sand the surface to a 240 grit profile, when dry sanded. Wash with a Surface Prep solution using the two-cloth method (one wet, one dry). Use tack cloths prior to painting. Apply 1-2 final coats.

PREVIOUSLY VARNISHED SURFACE

If the original varnished surface is intact without discolouration or signs of severe deterioration, use an industrial detergent to ensure the surface is free of moisture, oils and other contaminants before sanding. Sand the existing varnished surface to a 240 grit profile, when dry sanded. Ensuring the wood surface is free of dust, blow down with clean, dry, filtered air and wash with a Surface Prep solution using the two-cloth method (one wet, one dry). Clean, non-drycleaned rags should be used, or commercial cleaning cloths such as 3M Automotive Wipes, which are lint free. Full removal of the existing coating to bare timber will be necessary if the original varnished surface is breaking down, or the varnish and/or timber is discoloured or damaged. If this is required, refer to above "Bare Wood" application steps.

1. To a clean, dry surface, apply a minimum 6-7 coats of BRISTOL FINISH Classic Clear Water-Based Interior Gloss Urethane. More coats may be required for porous and problematic timbers, such as mahogany. Allow a minimum of 1 hour, but no longer than 4 hours between coats. No sanding is required if overcoating occurs within this time period. If this time is exceeded, sand to a 240 grit profile, when dry sanded. Wash with a Surface Prep solution using the two-cloth method (one wet, one dry), before the next coat application.
2. Before application of the final finishing coat, allow a minimum of 4 hours from the previous coat, then sand the surface to a 240 grit profile, when dry sanded. Wash with a Surface Prep solution using the two-cloth method (one wet, one dry). Use tack cloths prior to painting. Apply 1-2 final coats.

BRISTOL FINISH CLASSIC CLEAR WATER-BASED INTERIOR GLOSS URETHANE

Bristol Finish Classic Clear Water-Based Interior Gloss Urethane is a versatile, single-component, clear wood coating suitable for all timbers. It has very high abrasion resistance and suitable for interior use only. As a water-based coating, it provides a safe, non-toxic, low fume/odour alternative to conventional wood coatings. Water wash-up characteristics ensure further ease of use. With no sanding required between coats, and a 1 hour minimum recoat time, it builds quickly, meaning less time, labour and product is required. It must be applied over existing single and two-component coatings as either a build-up and/or finish coating.

Colour & finish	Clear / High Gloss
Package	1 quart 946ml approx
Mixed solids per litre	26% by volume
Flash point	nil
Recommended use	For interior use only. Suitable for building and/or finishing coats.
Methods of application	Brush / conventional or airless spray
Recommended application	Brush
Required Thinners	Clean, fresh water
Thinning ratio - brushed	thin if required up to 5%
Clean up	Clean, fresh water
Theoretical coverage	18m ² per quart kit, per coat
Application temperature	Between 4°C and 49°C during application
Tape removal	At 21°C, 4 hours
Tack free	At 29°C, 1 hour

BRISTOL FINISH CLASSIC CLEAR WATER-BASED INTERIOR SOFT SATIN URETHANE

BARE WOOD APPLICATION

Use a mild wood cleaner to ensure the surface is free of moisture, oils and other contaminants before sanding. Sand wood as required to expose a fresh surface, with final sanding to a 240 grit profile, when dry sanded. Ensuring the wood surface is free of dust, blow down with clean, dry, filtered air and wash with a Surface Prep solution using the two-cloth method (one wet, one dry). Clean, non-drycleaned rags should be used, or commercial cleaning cloths such as 3M Automotive Wipes, which are lint free.

1. To a clean, dry surface, apply 2 coats of either BRISTOL FINISH Traditional Amber Urethane or WERDOL Rapidclear Varnish as a sealer coat. Refer to the products' technical data sheets, for bare wood application. Final sanding of either these products should be to a 240 grit profile, when dry sanded. Wash with a Surface Prep solution using the two-cloth method (one wet, one dry), before the next coat application.
2. To a clean, dry surface, apply a minimum 5-6 coats of BRISTOL FINISH Classic Clear Water-Based Interior Soft Satin Urethane. More coats may be required, especially for porous and problematic timbers, such as mahogany. Allow a minimum of 1 hour, but no longer than 4 hours between coats. No sanding is required if overcoating occurs within this time period. If this time is exceeded, sand to a 240 grit profile, when dry sanded. Wash with a Surface Prep solution using the two-cloth method (one wet, one dry), before the next coat application.
3. Before application of the final finishing coat, allow a minimum of 4 hours from the previous coat, then sand the surface to a 240 grit profile, when dry sanded. Wash with a Surface Prep solution using the two-cloth method (one wet, one dry). Use tack cloths prior to painting. Apply 1-2 final coats.

PREVIOUSLY VARNISHED SURFACE

If the original varnished surface is intact without discolouration or signs of severe deterioration, use an industrial detergent to ensure the surface is free of moisture, oils and other contaminants before sanding. Sand the existing varnished surface to a 240 grit profile, when dry sanded. Ensuring the wood surface is free of dust, blow down with clean, dry, filtered air and wash with a Surface Prep solution using the two-cloth method (one wet, one dry). Clean, non-drycleaned rags should be used, or commercial cleaning cloths such as 3M Automotive Wipes, which are lint free. Full removal of the existing coating to bare timber will be necessary if the original varnished surface is breaking down, or the varnish and/or timber is discoloured or damaged. If this is required, refer to above "Bare Wood" application steps.

1. To a clean, dry surface, apply a minimum 6-7 coats of BRISTOL FINISH Classic Clear Water-Based Interior Soft Satin Urethane. More coats may be required for porous and problematic timbers, such as mahogany. Allow a minimum of 1 hour, but no longer than 4 hours between coats. No sanding is required if overcoating occurs within this time period. If this time is exceeded, sand to a 240 grit profile, when dry sanded. Wash with a Surface Prep solution using the two-cloth method (one wet, one dry), before the next coat application.
2. Before application of the final finishing coat, allow a minimum of 4 hours from the previous coat, then sand the surface to a 240 grit profile, when dry sanded. Wash with a Surface Prep solution using the two-cloth method (one wet, one dry). Use tack cloths prior to painting. Apply 1-2 final coats.

BRISTOL FINISH CLASSIC CLEAR WATER-BASED INTERIOR SOFT SATIN URETHANE

Bristol Finish Classic Clear Water-Based Interior Soft Satin Urethane is a versatile, single-component, clear wood coating suitable for all timbers. It has very high abrasion resistance and suitable for interior use only. As a water-based coating, it provides a safe, non-toxic, low fume/odour alternative to conventional wood coatings. Water wash-up characteristics ensure further ease of use. With no sanding required between coats, and a 1 hour minimum recoat time, it builds quickly, meaning less time, labour and product is required. It must be applied over existing single and two-component coatings as either a build-up and/or finish coating.

Colour & finish	Clear / Satin
Package	1 quart <i>946ml approx</i>
Mixed solids per litre	26% by volume
Flash point	nil
Recommended use	For interior use only. Suitable for building and/or finishing coats.
Methods of application	Brush / conventional or airless spray
Recommended application	Brush
Required Thinners	Clean, fresh water
Thinning ratio - brushed	thin if required up to 5%
Clean up	Clean, fresh water
Theoretical coverage	18m ² per quart kit, per coat
Application temperature	Between 4°C and 49°C during application
Tape removal	At 21°C, 4 hours
Tack free	At 29°C, 1 hour

BRISTOL FINISH SATIN ADDITIVE

APPLICATION

Refer to BRISTOL FINISH Traditional Amber Urethane application guidelines, before use of BRISTOL FINISH Satin Additive in the final coat.

1. Before application of the final finishing coat, allow a minimum of 24 hours from the previous coat, then sand the surface to a 240 grit profile, when dry sanded. Wash with Surface Prep using the two-cloth method (one wet, one dry). Use tack cloths prior to painting.
2. Ensuring the BRISTOL FINISH Satin Additive has been shaken well, combine it to the already catalysed BRISTOL FINISH Traditional Amber Urethane. Refer to the below guidelines for amounts needed to achieve a reduced gloss level. Thin to a maximum of 10% with BRISTOL FINISH Tropical Reducer, if desired. Apply one uniform coat. If a second coat is desired, leave for 12 hours before reapplication. There is no need to sand between these two final coats.

REDUCED GLOSS GUIDELINES

Semi-Gloss	1 part BRISTOL FINISH Satin Additive : 4 parts BRISTOL FINISH Traditional Amber Urethane
Satin	1 part BRISTOL FINISH Satin Additive : 3 parts BRISTOL FINISH Traditional Amber Urethane
Matte	1 part BRISTOL FINISH Satin Additive : 2 parts BRISTOL FINISH Traditional Amber Urethane

BRISTOL FINISH SATIN ADDITIVE

Bristol Finish Satin Additive provides the ability to reduce the gloss of BRISTOL FINISH Traditional Amber Urethane coatings. As a stand-alone additive, it allows any degree of gloss reduction desired, from a light satin to a completely flat finish. BRISTOL FINISH Satin Additive should only be used in the final finish coating. It may be used for interior or exterior applications.

Colour & finish	White Paste / Any Gloss Level
Package	8 oz 236ml <i>apprx</i>
Mixing ratio by volume	Refer to below guidelines
Mixed solids per litre	80% by volume
Recommended use	To achieve any level of gloss reduction desired, when using BRISTOL FINISH Traditional Amber Urethane. Use in the last coat <u>only</u> .
Methods of application	Brush / conventional or airless spray
Recommended application	Brush
Required thinners	BRISTOL FINISH Tropical Reducer (for brush or spray application)
Thinning ratio - brushed	Once combined with BRISTOL FINISH Traditional Amber Urethane, thin if required up to 10%.
Clean up	Acetone / BRISTOL FINISH Tropical Reducer
Theoretical coverage	Dependant on gloss reduction required
Application Temperature	Between 0°C and 49°C during application. For cold or humid conditions, the use of BRISTOL FINISH Accelerator is advised.
Tape removal	At 21°C, 24 hours
Tack free	At 29°C, 1 hour

BRISTOL FINISH TROPICAL REDUCER

To aid in the application of BRISTOL FINISH Traditional Amber Urethane, thinning may be necessary. Bristol Finish has formulated a unique reducer designed to compliment their product, whether brush or spray application methods are desired. Bristol Finish Tropical Reducer may also be used to extend wet-edge times especially in hot climates, and/or when the brush starts to drag through the coating being applied.

Colour	Clear
Package	1 quart <i>946ml approx</i>
Flash Point	39°C
Recommended Use	For thinning BRISTOL FINISH Traditional Amber Urethane <u>only</u> , to aid in brush or spray application, where desired.

BRISTOL FINISH ACCELERATOR

To aid faster curing of BRISTOL FINISH Traditional Amber Urethane, adding BRISTOL FINISH Accelerator may be necessary. Used sparingly, it will shorten wet-edge times, especially in cold climates.

Colour	Clear
Package	2 oz <i>59ml approx</i>
Flash Point	39°C
Recommended Use	For shortening BRISTOL FINISH Traditional Amber Urethane wet-edge and cure times, especially in cold weather.