

WERDOL®

VARNISHES



TECHNICAL DATA & APPLICATION GUIDE

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ABOUT WERDOL VARNISHES

The W. Heeren & Zoon co. (*Epifanes*) has traditionally manufactured quality coatings containing no added thinner. This provides increased value to the customer, as well as allowing the user to completely regulate the viscosity according to individual requirements.

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

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 WERDOL Varnishes provides minimal loss of film thickness as a result of solvent release. It is therefore of utmost importance to apply thin, even coats.

CHILLED VARNISH

When WERDOL Varnish is to be applied over a large surface area, the user may facilitate application by chilling the varnish to a temperature of 4-7°C before use. This allows a greater wet edge time, however, the user must be careful not to apply too thick a coat.

THINNING

For finish/final coats, WERDOL Varnishes should be thinned up to 5% using WERDOL Varnish Thinner. In very warm climates, it is advised that the product be thinned a full 5% for optimum flow and ease of application. Mineral Turpentine must not be used for thinning any WERDOL Varnish product. Use WERDOL Varnish Thinner only, as loss of gloss and darkening of the coating will otherwise occur.

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 WERDOL Accelerator to WERDOL Varnish is advised. This additive can be used with half-synthetic, one-component paints and varnishes up to 5% in volume, and will not affect flow, gloss or longevity.

BRUSHING TECHNIQUE

WERDOL Varnishes 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, 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 WERDOL BRUSHES

Good quality brushes deserve the best treatment. If you have invested in a set of fine WERDOL Chinese Boar Bristle Brushes, take this opportunity to understand their design, as their special characteristics offer much to be admired.

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 while bending the bristles in any direction. These brushes are manufactured for WERDOL, by an Italian company renowned for its quality brushware products.

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 a mineral spirits bath/WERDOL Varnish Thinner, and spin the brush well using a paint brush spinner.

After using the brush, immediately immerse it into mineral spirits/WERDOL Varnish Thinner. 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 mineral spirits/WERDOL Varnish Thinner 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, mineral spirits/WERDOL Varnish Thinner bath. Repeat the cleaning procedure. After the 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. WERDOL Varnish Thinner 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.

With proper care after use, a WERDOL quality brush will become your trusted tool for making the most of your finish work for years to come.

WERDOL CLEAR GLOSS VARNISH

WERDOL CLEAR GLOSS VARNISH

A single-component varnish formulated to have extraordinary interior or exterior protection even in tropical climates. This varnish is manufactured with a long base of 100% tung oil, combined with non-yellowing urethane and alkyd resins blended with a perfected balance of ultra violet filters.

Provides a hard, amber clear, UV resistant, high gloss finish. May be applied over single-component, or two-component coatings.

Generic type	Varnish based on tung oil, phthalic alkyd, urethane resins and ultra-violet filters.
Colour & finish	Amber Clear / High Gloss
Package	500ml / 1L
Mixed solids per litre	65% by volume, 68% by weight
Mixed weight per litre	920g
Flash point	39°C
Recommended use	Provides excellent adhesion to, and filing 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	WERDOL Varnish Brushing Thinner (for brush application) WERDOL Varnish Spraying Thinner (for spray application)
Thinning ratio - brushed	First coat 50%, second coat 25%, third coat 15% Additional coats thin if required up to 5-7%
Thinning ratio - sprayed	Conventional air spray: thin as required up to 15% Airless Spray: Thin as required up to 5%
Spray viscosity for conventional air spray	23-28 seconds # 2 Zahn Cup 18-22 seconds DIN Cup 4 20-24 seconds Ford Cup 4
Clean up	Mineral spirits / WERDOL Varnish Thinner
Theoretical coverage	14m ² per litre
Application temperature range	Temperature should be between 10°C and 30°C during application. For cold or humid conditions, the use of WERDOL Accelerator is advised.
Tape removal	At 23°C, 24 hours
Tack free	At 23°C, 2 hours
Service temperature limits	50°C continuous; 93°C intermittent. High temperatures may cause yellowing or blistering.

WERDOL CLEAR GLOSS APPLICATION

BARE WOOD

Ensuring the wood surface is free of dust, moisture and other contaminants, wipe with denatured alcohol 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. Sand wood as required to expose a fresh surface, with final sanding to a 240 grit profile when dry sanded.

1. Apply the first coat of WERDOL Clear Gloss Varnish, thinned 50%. Due to wood fibres appearing after this first application, it is necessary again to sand to a 240 grit profile when dry sanded.
2. Prior to application of additional coats, wipe the surface with denatured alcohol using the two-cloth method (one wet, one dry). Apply the second coat, thinned 25%.
3. Allow finish to cure thoroughly and sand to a 320 grit profile when dry sanded. Clean with denatured alcohol using the two-cloth method (one wet, one dry). Apply the third coat, thinned 15%.
4. Apply an additional 4-5 coats of varnish, sanding well between coats to a 320 grit profile when dry sanded. Clean with denatured alcohol using the two-cloth method (one wet, one dry). Before application of the final coat, remove any dust particles using a tack rag.

PREVIOUSLY VARNISHED SURFACE

If the original wood surface is intact without discolouration or signs of severe deterioration, ensure the wood surface is free of dust, moisture and other contaminants by wiping with denatured alcohol 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. Sand the surface well to a 240 grit profile when dry sanded.

1. Apply a minimum of 2-3 coats of WERDOL Clear Gloss Varnish, with the first coat thinned by 10%.
2. Sand well between coats to a 320 grit profile when dry sanded, then wipe with denatured alcohol using the two-cloth method (one wet, one dry). Remove any dust particles with a tack rag prior to the final coat.

PRODUCT TIPS

Never shake product, but gently hand stir thoroughly before use. Pour the amount of varnish to be used through a paint strainer into a paint pot. Close the original can immediately.

Never pour unused varnish back into the original can. Unused varnish should be kept as fresh as possible in the original can, or a separate jar or container.

Refer to information regarding “The Care and Maintenance of Quality Brushes.”

When any WERDOL Varnish product is to be applied over a large surface area, the user may facilitate application by chilling the varnish to a temperature to 4-7°C before use. This allows a longer application time, however, the user must be careful not to apply too thick a coat.

IMPORTANT

Mineral Turpentine must not be used for thinning any WERDOL Varnish product. Use WERDOL Varnish Thinner only, as loss of gloss and darkening of the coating will otherwise occur.

WERDOL WOODFINISH GLOSS VARNISH

WERDOL WOODFINISH GLOSS VARNISH

A single-component varnish formulated to have excellent adhesion to new teak and other exotic/oily woods, while providing extraordinary interior or exterior protection even in tropical climates.

Provides a hard, amber clear, UV resistant, high gloss finish without much of the sanding and expertise that other conventional varnish products require. May be applied over single-component, or two-component coatings.

Generic type	A medium-long based oil formulation, with phenolic based resins and ultra-violet filters.
Colour & finish	Amber Clear / High Gloss
Package	1L
Mixed solids per litre	65% by volume, 60% by weight
Mixed weight per litre	920g
Flash point	39°C
Recommended use	For long lasting protection of teak and other exotic/oily 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	WERDOL Varnish Brushing Thinner (for brush application) WERDOL Varnish Spraying Thinner (for spray application)
Thinning ratio - brushed	First coat 10%. Additional coats thin if required up to 5%
Thinning ratio - sprayed	Conventional air spray: thin as required up to 15% Airless Spray: thin as required up to 5%
Spray viscosity for conventional air spray	23-28 seconds #2 Zahn Cup 18-22 seconds DIN Cup 4 20-24 seconds Ford Cup 4
Clean up	Mineral spirits / WERDOL Varnish Thinner
Theoretical coverage	10m ² per litre
Application temperature range	Temperature should be between 10°C-30°C during application.
Tape removal	At 23°C, 24 hours
Tack free	At 23°C, 2 hours
Service temperature limits	50°C continuous; 93°C intermittent. Higher temperatures may cause yellowing or blistering.

WERDOL WOODFINISH GLOSS VARNISH APPLICATION

BARE WOOD

Ensuring the wood surface is free of dust, moisture and other contaminants, wipe with denatured alcohol 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. Sand wood as required to expose a fresh surface, with final sanding to a 240 grit profile when dry sanded.

1. Apply the first coat of WERDOL Woodfinish Gloss Varnish, thinned 10%. Due to wood fibres appearing after this first application, it is necessary again to sand to a 240 grit profile when dry sanded.
2. Prior to application of additional coats, wipe the surface with denatured alcohol using the two-cloth method (one wet, one dry). Apply additional coats allowing 24 hours drying time (at 23°C) between applications. Sanding is not required for adhesion if each coat is applied within 72 hours of the previous application. Apply a minimum of 4-5 coats of varnish.
3. Prior to application of the final coat, sand the surface well to a 320 grit profile when dry sanded. Clean with denatured alcohol using the two-cloth method (one wet, one dry). Remove any dust particles using a tack rag.

PREVIOUSLY VARNISHED SURFACE

If the original wood surface is intact without discolouration or signs of severe deterioration, ensure the wood surface is free of dust, moisture and other contaminants by wiping with denatured alcohol 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. Sand the surface well to a 240 grit profile when dry sanded.

1. Apply the first coat of WERDOL Woodfinish Gloss Varnish, thinned 10%.
2. Follow steps 2 and 3, as outlined in “Bare Wood” application.

PRODUCT TIPS

Never shake product, but gently hand stir thoroughly before use. Pour the amount of varnish to be used through a paint strainer into a paint pot. Close the original can immediately.

Never pour unused varnish back into the original can. Unused varnish should be kept as fresh as possible in the original can, or a separate jar or container.

Refer to information regarding “The Care and Maintenance of Quality Brushes.”

When any WERDOL Varnish product is to be applied over a large surface area, the user may facilitate application by chilling the varnish to a temperature to 4-7°C before use. This allows a longer application time, however, the user must be careful not to apply too thick a coat.

IMPORTANT

Mineral Turpentine must not be used for thinning any WERDOL Varnish product. Use WERDOL Varnish Thinner only, as loss of gloss and darkening of the coating will otherwise occur.

WERDOL WOODFINISH MATTE VARNISH

WERDOL WOODFINISH MATTE VARNISH

A single-component varnish formulated to have excellent adhesion to new teak and other exotic/oily woods, while providing extraordinary interior or exterior protection even in tropical climates.

Provides a hard, amber clear, UV resistant, satin-matte finish without much of the sanding and expertise that other conventional varnish products require. May be applied over single-component, or two-component coatings.

Generic type	A medium-long based oil formulation, with phenolic based resins and ultra-violet filters.
Colour & finish	Amber Clear / Satin-Matte
Package	1L
Mixed solids per litre	65% by volume, 60% by weight
Mixed weight per litre	920g
Flash point	39°C
Recommended use	For long lasting protection of teak and other exotic/oily 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	WERDOL Varnish Brushing Thinner (for brush application) WERDOL Varnish Spraying Thinner (for spray application)
Thinning ratio - brushed	First coat 10%. Additional coats thin if required up to 5%
Thinning ratio - sprayed	Conventional air spray: thin as required up to 15% Airless Spray: thin as required up to 5%
Spray viscosity for conventional air spray	23-28 seconds #2 Zahn Cup 18-22 seconds DIN Cup 4 20-24 seconds Ford Cup 4
Clean up	Mineral spirits / WERDOL Varnish Thinner
Theoretical coverage	10m ² per litre
Application temperature range	Temperature should be between 10°C-30°C during application.
Tape removal	At 23°C, 24 hours
Tack free	At 23°C, 2 hours
Service temperature limits	50°C continuous; 93°C intermittent. Higher temperatures may cause yellowing or blistering.

WERDOL WOODFINISH MATTE VARNISH APPLICATION

BARE WOOD

Ensuring the wood surface is free of dust, moisture and other contaminants, wipe with denatured alcohol 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. Sand wood as required to expose a fresh surface, with final sanding to a 240 grit profile when dry sanded.

1. Apply the first coat of WERDOL Woodfinish Matte Varnish, thinned 10%. Due to wood fibres appearing after this first application, it is necessary again to sand to a 240 grit profile when dry sanded.
2. Prior to application of additional coats, wipe the surface with denatured alcohol using the two-cloth method (one wet, one dry). Apply additional coats allowing 24 hours drying time (at 23°C) between applications. Sanding is not required for adhesion if each coat is applied within 72 hours of the previous application. Apply a minimum of 4-5 coats of varnish.
3. Prior to application of the final coat, sand the surface well to a 320 grit profile when dry sanded. Clean with denatured alcohol using the two-cloth method (one wet, one dry). Remove any dust particles using a tack rag.

PREVIOUSLY VARNISHED SURFACE

If the original wood surface is intact without discolouration or signs of severe deterioration, ensure the wood surface is free of dust, moisture and other contaminants by wiping with denatured alcohol 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. Sand the surface well to a 240 grit profile when dry sanded.

1. Apply the first coat of WERDOL Woodfinish Matte Varnish, thinned 10%.
2. Follow steps 2 and 3, as outlined in “Bare Wood” application.

PRODUCT TIPS

Never shake product, but gently hand stir thoroughly before use. Pour the amount of varnish to be used through a paint strainer into a paint pot. Close the original can immediately.

Never pour unused varnish back into the original can. Unused varnish should be kept as fresh as possible in the original can, or a separate jar or container.

Refer to information regarding “The Care and Maintenance of Quality Brushes.”

When any WERDOL Varnish product is to be applied over a large surface area, the user may facilitate application by chilling the varnish to a temperature to 4-7°C before use. This allows a longer application time, however, the user must be careful not to apply too thick a coat.

IMPORTANT

Mineral Turpentine must not be used for thinning any WERDOL Varnish product. Use WERDOL Varnish Thinner only, as loss of gloss and darkening of the coating will otherwise occur.

WERDOL RAPIDCLEAR VARNISH

WERDOL RAPIDCLEAR VARNISH

A single-component varnish formulated to have adhesion to new teak and other exotic/oily woods, while providing excellent interior or exterior protection. Ideal as a cost-effective, quick and easy alternative to conventional varnishes, with shorter recoat times and no sanding required between applications.

Provides a hard, clear, UV resistant, semi-gloss finish. May be applied over single-component, or two-component coatings.

Generic type	A modified alkyd/urethane resin formulation, with ultra-violet filters.
Colour & finish	Clear / Semi-Gloss
Package	750ml
Mixed solids per litre	40% by volume, 38% by weight
Mixed weight per litre	889g
Flash point	39°C
Recommended use	For use on teak and other exotic/oily woods, with interior or exterior exposure. May be used as a stand-alone coating. Most suitable as a cost-effective, fast building coat, before final application of a secondary varnish product.
Methods of application	Brush / conventional or airless spray
Recommended application	Brush
Required thinners	WERDOL Varnish Brushing Thinner (for brush application) WERDOL Varnish Spraying Thinner (for spray application)
Thinning ratio - brushed	Generally not required. First coat maximum 10%, if desired.
Thinning ratio - sprayed	Conventional air spray: thin as required up to 15% Airless Spray: thin as required up to 5%
Spray viscosity for conventional air spray	23-28 seconds #2 Zahn Cup 18-22 seconds DIN Cup 4 20-24 seconds Ford Cup 4
Clean up	Mineral spirits / WERDOL Varnish Thinner
Theoretical coverage	12m ² per litre
Application temperature range	Temperature should be between 10°C-30°C during application.
Tape removal	At 23°C, 5 hours
Tack free	At 23°C, 3 hours
Service temperature limits	50°C continuous; 93°C intermittent. Higher temperatures may cause yellowing or blistering.

WERDOL RAPIDCLEAR VARNISH APPLICATION

BARE WOOD

Ensuring the wood surface is free of dust, moisture and other contaminants, wipe with denatured alcohol 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. Sand wood as required to expose a fresh surface, with final sanding to a 240 grit profile when dry sanded.

1. Apply the first coat of WERDOL Rapidclear Varnish. Thinning is not usually required, but if desired, thin up to 10%.
2. Prior to application of additional coats, wipe the surface with denatured alcohol using the two-cloth method (one wet, one dry). Apply additional coats allowing 5-6 hours drying time (at 23°C) between applications, with the application process to be completed within a two week period. Apply a minimum of 4-5 coats.
3. If the final coats are to be a secondary varnish product and not WERDOL Rapidclear Varnish, sand the surface well to a 240 grit profile when dry sanded. Clean with denatured alcohol using the two-cloth method (one wet, one dry). Remove any dust particles using a tack rag prior to the final coat. 3-4 final coats of varnish should be applied, with WERDOL Clear Gloss, Woodfinish Gloss, Woodfinish Matte or Rubbed Effect (interior use only) being ideal products to use.

PREVIOUSLY VARNISHED SURFACE

If the original wood surface is intact without discolouration or signs of severe deterioration, ensure the wood surface is free of dust, moisture and other contaminants by wiping with denatured alcohol 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. Sand the surface well to a 240 grit profile when dry sanded.

1. Follow steps 2 and 3, as outlined in “Bare Wood” application.

PRODUCT TIPS

Never shake product, but gently hand stir thoroughly before use. Pour the amount of varnish to be used through a paint strainer into a paint pot. Close the original can immediately.

Never pour unused varnish back into the original can. Unused varnish should be kept as fresh as possible in the original can, or a separate jar or container.

Refer to information regarding “The Care and Maintenance of Quality Brushes.”

When any WERDOL Varnish product is to be applied over a large surface area, the user may facilitate application by chilling the varnish to a temperature to 4-7°C before use. This allows a longer application time, however, the user must be careful not to apply too thick a coat.

IMPORTANT

Mineral Turpentine must not be used for thinning any WERDOL Varnish product. Use WERDOL Varnish Thinner only, as loss of gloss and darkening of the coating will otherwise occur.

WERDOL RUBBED EFFECT INTERIOR VARNISH

WERDOL RUBBED EFFECT INTERIOR VARNISH

A single-component varnish formulated for interior use only. Ideal as a cost-effective, quick and easy alternative to conventional varnishes, with shorter recoat times and no sanding required between applications. Preferably used as a finishing coat over several build-up coats of WERDOL Clear Gloss, WERDOL Rapidclear or WERDOL PP Extra Clear Gloss Varnish products.

Provides a hard, amber clear, satin finish. May be applied over single-component, or two-component coatings. A two coat minimum is recommended over existing build-up coats.

Generic type	Varnish based on tung oil, phthalic alkyd resins.
Colour & finish	Amber Clear / Satin
Package	1L
Mixed solids per litre	65% by volume, 68% by weight
Mixed weight per litre	950g
Flash point	39°C
Recommended use	For interior use only. Suitable for finishing coats over existing build-up coats.
Methods of application	Brush / conventional or airless spray
Recommended application	Brush
Required thinners	WERDOL Varnish Brushing Thinner (for brush application) WERDOL Varnish Spraying Thinner (for spray application)
Thinning ratio - brushed	Thin if required up to 5-7%
Thinning ratio - sprayed	Conventional air spray: thin as required up to 15% Airless Spray: Thin as required up to 5%
Spray viscosity for conventional air spray	23-28 seconds # 2 Zahn Cup 18-22 seconds DIN Cup 4 20-24 seconds Ford Cup 4
Clean up	Mineral spirits / WERDOL Varnish Thinner
Theoretical coverage	12m ² per litre
Application temperature range	Temperature should be between 10°C and 30°C during application. For cold or humid conditions, the use of WERDOL Accelerator is advised.
Tape removal	At 23°C, 24 hours
Tack free	At 23°C, 1 hour
Service temperature limits	50°C continuous; 93°C intermittent. High temperatures may cause yellowing or blistering.

WERDOL RUBBED EFFECT INTERIOR VARNISH APPLICATION

BARE WOOD

Ensuring the wood surface is free of dust, moisture and other contaminants, wipe with denatured alcohol 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. Sand wood as required to expose a fresh surface, with final sanding to a 240 grit profile when dry sanded.

1. Depending on the product desired for build-up coatings, follow steps 1-4 as outlined in WERDOL High Gloss Varnish “Bare Wood” application, steps 1-3 as outlined in WERDOL Rapidclear Varnish “Bare Wood” application, or steps 1-2 as outlined in WERDOL PP Extra Clear Gloss Varnish “Bare Wood” application. Ensure a minimum five coats of the product selected are applied, for a maximum high build effect.
2. Prior to application of the final coat, sand the surface well to a 240 grit profile when dry sanded. Clean with denatured alcohol using the two-cloth method (one wet, one dry). Remove any dust particles using a tack rag. At least two final coats of WERDOL Rubbed Effect Interior Varnish should be applied.

PREVIOUSLY VARNISHED SURFACE

If the original wood surface is intact without discolouration or signs of severe deterioration, ensure the wood surface is free of dust, moisture and other contaminants by wiping with denatured alcohol 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. Sand the surface well to a 240 grit profile when dry sanded.

1. Follow step 2, as outlined in “Bare Wood” application.

PRODUCT TIPS

Never shake product, but gently hand stir thoroughly before use. Pour the amount of varnish to be used through a paint strainer into a paint pot. Close the original can immediately.

Never pour unused varnish back into the original can. Unused varnish should be kept as fresh as possible in the original can, or a separate jar or container.

Refer to information regarding “The Care and Maintenance of Quality Brushes.”

When any WERDOL Varnish product is to be applied over a large surface area, the user may facilitate application by chilling the varnish to a temperature to 4-7°C before use. This allows a longer application time, however, the user must be careful not to apply too thick a coat.

IMPORTANT

Mineral Turpentine must not be used for thinning any WERDOL Varnish product. Use WERDOL Varnish Thinner only, as loss of gloss and darkening of the coating will otherwise occur.

WERDOL AQUA MARINE WATER-BASED INTERIOR VARNISH

WERDOL AQUA MARINE WATER-BASED INTERIOR VARNISH

A single-component, water-based varnish formulated for interior use only. Ideal as a safe, non-toxic alternative to conventional varnishes, with low fumes/odours and water wash-up characteristics. Preferably used as a finishing coat over several build-up coats of WERDOL Clear Gloss, WERDOL Rapidclear or WERDOL PP Extra Clear Gloss Varnish products.

Provides a hard, clear, satin finish. May be applied over single-component, or two-component coatings. A two coat minimum is recommended over existing build-up coats.

Generic type	Water-based polyurethane and acrylic dispersion.
Colour & finish	Clear / Satin
Package	1L
Mixed solids per litre	33% by volume, 35% by weight
Mixed weight per litre	950g
Flash point	nil
Recommended use	For interior use only. Suitable for finishing coats over existing build-up 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%
Thinning ratio - sprayed	Conventional air spray: thin as required up to 15% Airless Spray: Thin as required up to 5%
Spray viscosity for conventional air spray	23-28 seconds # 2 Zahn Cup 18-22 seconds DIN Cup 4 20-24 seconds Ford Cup 4
Clean up	Clean, fresh water
Theoretical coverage	12m ² per litre
Application temperature range	Temperature should be between 10°C and 30°C during application.
Tape removal	At 23°C, 6 hours
Tack free	At 23°C, 1 hour
Service temperature limits	50°C continuous; 93°C intermittent. High temperatures may cause yellowing or blistering.

WERDOL AQUA MARINE WATER-BASED INTERIOR VARNISH APPLICATION

BARE WOOD

Ensuring the wood surface is free of dust, moisture and other contaminants, wipe with denatured alcohol 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. Sand wood as required to expose a fresh surface, with final sanding to a 240 grit profile when dry sanded.

3. Depending on the product desired for build-up coatings, follow steps 1-4 as outlined in WERDOL High Gloss Varnish "Bare Wood" application, steps 1-3 as outlined in WERDOL Rapidclear Varnish "Bare Wood" application, or steps 1-2 as outlined in WERDOL PP Extra Clear Gloss Varnish "Bare Wood" application. Ensure a minimum five coats of the product selected are applied, for a maximum high build effect.
1. Prior to application of the final coat, sand the surface well to a 240 grit profile when dry sanded. Clean with denatured alcohol using the two-cloth method (one wet, one dry). Remove any dust particles using a tack rag. At least two final coats of WERDOL Aqua Marine Water-Based Interior Matte Varnish should be applied, with final sanding to a 320 grit profile when dry sanded, between coats.

PREVIOUSLY VARNISHED SURFACE

If the original wood surface is intact without discolouration or signs of severe deterioration, ensure the wood surface is free of dust, moisture and other contaminants by wiping with denatured alcohol 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. Sand the surface well to a 240 grit profile when dry sanded.

1. Follow step 2, as outlined in "Bare Wood" application.

PRODUCT TIPS

Never shake product, but gently hand stir thoroughly before use. Pour the amount of varnish to be used through a paint strainer into a paint pot. Close the original can immediately.

Never pour unused varnish back into the original can. Unused varnish should be kept as fresh as possible in the original can, or a separate jar or container.

Refer to information regarding "The Care and Maintenance of Quality Brushes."

When any WERDOL Varnish product is to be applied over a large surface area, the user may facilitate application by chilling the varnish to a temperature to 4-7°C before use. This allows a longer application time, however, the user must be careful not to apply too thick a coat.

IMPORTANT

Clean, fresh water must only be used for thinning and cleaning purposes with WERDOL Aqua Marine Water-Based Interior Varnish. This product must be stored away from extreme cold temperatures and direct sunlight.

WERDOL PP EXTRA CLEAR GLOSS VARNISH

WERDOL PP EXTRA CLEAR GLOSS VARNISH

A two-component varnish formulated to have excellent adhesion to new teak and other exotic/oily woods, while providing extraordinary interior or exterior protection even in tropical climates. Shorter recoat times with no sanding required between applications makes it ideal for initial wood grain filling and fast build-up coats. Extreme abrasion and chemical resistance qualities also make it ideal for floors and other high-wear areas. When used as a build-up coat, several final coats of any WERDOL single-component varnish product may be applied to ensure easy maintenance.

Provides a hard, clear, UV resistant, high gloss finish. Must be applied over two-component coatings only.

Generic type	Two-component, alkyd resin and isocyanates with ultra-violet filters.
Colour & finish	Clear / Gloss
Package	2L Pack (1L Part A, 1L Part B) 10L Pack (5L Part A, 5L Part B)
Mixed solids per litre	45% by volume, 47% by weight
Mixing ratio by volume	1 Part A : 1 Part B
Pot life	At 20°C, 4 hours
Recommended use	Ideal for initial wood grain filling and fast build-up coats, for wood with interior or exterior exposure and high-wear situations. Suitable as a finishing coat, but final application of a secondary varnish product will ensure easier maintenance.
Methods of application	Brush / conventional or airless spray
Recommended application	Conventional spray
Required thinners	WERDOL PP Extra Thinner (for brush and spray application)
Thinning ratio - brushed	Thin if required up to 5%
Thinning ratio - sprayed	Conventional air spray: thin as required up to 15% Airless Spray: thin as required up to 5%
Spray viscosity for conventional air spray	23-28 seconds #2 Zahn Cup 18-22 seconds DIN Cup 4 20-24 seconds Ford Cup 4
Clean up	Mineral spirits / WERDOL PP Extra Thinner
Theoretical coverage	14m ² per litre
Application temperature range	Temperature should be between 10°C-30°C during application.
Tape removal	At 23°C, 24 hours
Tack free	At 23°C, 2 hours

Service temperature limits

50°C continuous; 93°C intermittent. Higher temperatures may cause yellowing or blistering.

WERDOL PP EXTRA CLEAR GLOSS VARNISH APPLICATION

BARE WOOD

Ensuring the wood surface is free of dust, moisture and other contaminants, wipe with denatured alcohol 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. Sand wood as required to expose a fresh surface, with final sanding to a 240 grit profile when dry sanded.

1. Apply the first coat of WERDOL PP Extra Clear Gloss Varnish. Due to wood fibres appearing after this first application, it is necessary again to sand to a 240 grit profile when dry sanded.
2. Prior to application of additional coats, wipe the surface with denatured alcohol using the two-cloth method (one wet, one dry). Apply additional coats allowing 2 hours drying time (at 23°C) between applications. Sanding is not required for adhesion if each coat is applied within 48 hours of the previous application. Apply a minimum of 4-5 coats of varnish.
3. Prior to application of the final coat, sand the surface well to a 320 grit profile when dry sanded. Clean with denatured alcohol using the two-cloth method (one wet, one dry). Remove any dust particles using a tack rag. If final coating with a secondary single-component varnish is desired, 3-4 final coats should be applied. Any WERDOL single-component varnish product may be used for this purpose.

PREVIOUSLY VARNISHED SURFACE

If the original wood surface is intact without discolouration or signs of severe deterioration, ensure the wood surface is free of dust, moisture and other contaminants by wiping with denatured alcohol 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. Sand the surface well to a 240 grit profile when dry sanded. **WARNING:** The existing coating must be a two-component coating, as adhesion problems may occur when applying WERDOL PP Extra Varnish over single-component coatings.

1. Follow steps 2 and 3, as outlined in “Bare Wood” application.

PRODUCT TIPS

Never shake product, but gently hand stir thoroughly before use. Pour the amount of varnish to be used through a paint strainer into a paint pot. Close the original can immediately.

Never pour unused varnish back into the original can. Unused varnish should be kept as fresh as possible in the original can, or a separate jar or container.

Refer to information regarding “The Care and Maintenance of Quality Brushes.”

When any WERDOL Varnish product is to be applied over a large surface area, the user may facilitate application by chilling the varnish to a temperature to 4-7°C before use. This allows a longer application time, however, the user must be careful not to apply too thick a coat.

IMPORTANT

Mineral Turpentine must not be used for thinning any WERDOL Varnish product. Use WERDOL Varnish Thinner only, as loss of gloss and darkening of the coating will otherwise occur.

WERDOL VARNISH THINNERS

WERDOL VARNISH BRUSHING THINNER

A pure, highly refined, specially formulated solvent designed to suit WERDOL single-component varnishes, where product thinning to aid brushing application is desired (not suitable for WERDOL Aqua Marine Water-Based Interior Matte Varnish).

Generic type	Aliphatic hydrocarbon mixture.
Colour	Clear
Package	500ml / 1L
Mixed weight per litre	780g
Flash point	39°C
Recommended use	For thinning of all WERDOL single-component varnishes, where brushing application is desired (not suitable for WERDOL Aqua Marine Water-Based Interior Matte Varnish).

WERDOL PP EXTRA THINNER

A pure, highly refined, specially formulated solvent designed to be used only with WERDOL PP Extra Clear Gloss Varnish two-component coating. This additive may be used when product thinning to aid either brushing or spraying application is desired.

Generic type	Aliphatic hydrocarbon mixture.
Colour	Clear
Package	1L
Mixed weight per litre	780g
Flash point	39°C
Recommended use	For thinning only WERDOL PP Extra Clear Gloss Varnish, where either spraying or brushing application is desired.

WERDOL VARNISH SPRAYING THINNER

A pure, highly refined, specially formulated solvent designed to suit WERDOL single-component varnishes, where product thinning to aid spraying application is desired (not suitable for WERDOL Aqua Marine Water-Based Interior Matte Varnish).

Generic type	Aliphatic hydrocarbon mixture.
Colour	Clear
Package	1L
Mixed weight per litre	780g
Flash point	39°C
Recommended use	For thinning of all WERDOL single-component varnishes, where spraying application is desired (not suitable for WERDOL Aqua Marine Water-Based Interior Matte Varnish).

WERDOL STUNT OIL

WERDOL STUNT OIL

A single-component, specially formulated additive to suit WERDOL single-component varnishes (not suitable for WERDOL Aqua Marine Water-Based Interior Matte Varnish).

WERDOL Stunt Oil may be added to a WERDOL single-component varnish product, during brush application when longer wet-edge times are required, and/or when the brush starts to drag through the coating.

The addition of WERDOL stunt oil to the first coat of a WERDOL single-component varnish product when brushing, can also help promote adhesion to previously, heavily contaminated timber surfaces.

Generic type	A modified oil formulation.
Colour	Dark Amber Clear
Package	500ml / 1L
Flash point	nil
Recommended use	To extend wet-edge times while applying WERDOL single-component varnish products by brush application. May also be used in the first coat, to promote adhesion to previously, heavily contaminated timber surfaces.
Methods of application	Brush only

WERDOL STUNT OIL USAGE

EXTENDING THE WET-EDGE TIME

During brush application of a WERDOL single-component varnish product, wet-edge times may reduce due to any combination of factors such as high temperatures, humidity and time. This can cause the brush to “drag” or pull through the coating as it cures at a faster rate. If this starts to occur, add 10% WERDOL Stunt Oil to the unused, and unthinned WERDOL Varnish product being applied. This may be increased, if desired, to a maximum 30%.

PROMOTING ADHESION

When a previously heavily contaminated timber surface is to be coated, the addition of WERDOL Stunt Oil to the first coating of a WERDOL single-component varnish product will promote greater adhesion (during brush application only). Add 10% WERDOL Stunt Oil to the unused, and unthinned WERDOL Varnish product. This may be increased, if desired, to a maximum 30%.

WARNING: This scenario must not be performed in replacement of specific surface preparation steps, as detailed in all WERDOL Varnish product application guidelines.

WERDOL ACCELERATOR

WERDOL ACCELERATOR

A single-component, specially formulated additive to suit WERDOL single-component varnishes (not suitable for WERDOL Aqua Marine Water-Based Interior Matte Varnish).

WERDOL Accelerator may be added to a WERDOL single-component varnish product, during brushing or spraying application when shorter wet-edge times / faster cure rates are required, especially in colder climates.

A high percentage of WERDOL Accelerator may also be added to WERDOL Varnish products when used in interior applications, to create an even harder, abrasive resistant coating, especially suited for interior floors.

WERDOL Accelerator may be further used by itself as a stand-alone primer/sealer over resinous woods, bleeding pigments, tar and bitumen.

Generic type	A wood oil and phenolic resin.
Colour	Dark Amber Clear
Package	500ml / 1L
Mixed solids per litre	47% by volume, 49% by weight
Mixed weight per litre	900g
Flash point	39°C
Recommended use	Additive for shortening WERDOL single-component varnish product cure times. May also be used at higher ratios to increase durability of coatings in interior areas, and used by itself as a primer sealer over resinous woods, bleeding pigments, tar and bitumen.
Methods of application	Brush / conventional or airless spray
Recommended application	Brush (used as a primer/sealer)
Clean up	Mineral spirits / WERDOL Varnish Thinner
Theoretical coverage	18m ² per litre (used as a primer/sealer)
Application temperature range	Temperature should be between 10°C-30°C during application (used as a primer/sealer)
Service temperature limits	50°C continuous; 93°C intermittent. Higher temperatures may cause yellowing or blistering.

WERDOL ACCELERATOR USEAGE

REDUCING THE WET-EDGE TIME

During brush or spray application of a WERDOL single-component varnish product, wet-edge times / cure rates may increase due to any combination of factors such as low temperatures, humidity and time. Add 5-7% WERDOL Accelerator to the unused WERDOL Varnish product, either before or during application. Gloss and longevity properties of the WERDOL Varnish product will not be affected at these percentage levels.

CREATING HARDER COATINGS – INTERIOR ONLY

Adding 50% WERDOL Accelerator to a WERDOL single-component product will create an extremely hard, high wearing, abrasive resistant coating, but suited for interior applications only. This process is ideal for interior areas such as tables and floors, where a slight yellowing of the coating is not an issue, due to the level of WERDOL Accelerator added.

STAND-ALONE PRIMER/SEALER

WERDOL Accelerator may be used by itself, as a stand-alone primer/sealer over resinous woods, bleeding pigments, tar and bitumen.