

SpecWood® WB Acrylic Deck & Wood Outdoor

Water-Based Self-Crosslinking Acrylic Topcoat for Exterior Wood, Joinery and Decking

Description:

SpecWood® WB Acrylic Deck & Wood Outdoor is a one-component, water-based, self-crosslinking acrylic topcoat formulated for exterior wood. It is the primary topcoat for the SpecWood® Joinery System and is equally well-suited to windows, doors, frames, cladding, garden furniture, balustrades, handrails and light- to medium-traffic decking. Highly flexible, weather-resistant, abrasion-resistant and very low water-absorption.

Available in Transparent (Clear), Pigmented with transparent iron oxide colourants for natural wood-shade finishes that retain grain visibility, or in solid RAL colours for total colour change. Three gloss levels — Gloss (> 90 GU), SilkMatt (20–25 GU), and Matt (5–10 GU) — derived from the same base resin with controlled matting agent variation, so weathering performance and film integrity are equivalent across the gloss range.

Intended Uses:

- Exterior joinery — windows, doors, door frames, window frames, fascias.
- Cladding, balcony enclosures and vertical exterior wood applications.
- Garden and patio furniture, external trim, pergolas and architectural detail.
- Light- and medium-traffic decking, balustrades, handrails.
- Layer 3 (Topcoat) of the SpecWood® Joinery System (Standard or PRO).
- Interior wood feature surfaces requiring high mechanical and chemical resistance.

Features & Benefits:

- **Self-crosslinking acrylic chemistry:** delivers very good weathering resistance, blocking resistance and film flexibility.
- **Three gloss levels from one resin platform:** Gloss, SilkMatt and Matt — uniform weathering across all variants.
- **Three colour philosophies:** Transparent Clear / Pigmented wood-shade (transparent iron oxides — grain visible) / Solid RAL colours (total colour change).
- **Highly flexible film:** moves with timber under thermal and moisture stress without cracking.
- **Excellent resistance to liquid water, salt water, ethanol, coffee and red wine:** demonstrated per standard QC water spot protocol.
- **Synergistic biocide system based on silver and BIT chemistry:** for in-can preservation and film mould and algal resistance.
- **Water-based:** low odour, easy water clean-up.
- **Manufactured in South Africa:** formulated for South African climate, full RAL colour-matching service.

Technical Data:

Property	Specification
Colour	Transparent (Clear) Pigmented wood-shade range (Light Oak, Walnut, Mahogany, Ebony — transparent iron oxide pigments) Solid RAL colour-match
Finish	Gloss > 90 GU SilkMatt 20–25 GU Matt 5–10 GU
Product Type	1K water-based self-crosslinking acrylic topcoat
Density (mixed)	1.03 kg/Lt
Volume Solids	34 % ± 2
Mass Solids	37 % ± 2
Flash Point	None (water-based)
Viscosity	100–110 KU (Krebs Stormer)

WOOD & FURNITURE COATINGS

Whilst we endeavour to ensure that all advice we give about the product is correct, the information given in this data sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so entirely at his own risk. As conditions of use, method of application and suitability of the substrate prior to painting are beyond our control, no guarantee is implied by the recommendations contained herein. We therefore do not accept any liability whatsoever or howsoever arising from the performance of this product or for any loss or damage arising out of the use of this product. The information contained in this sheet is liable to modification from time to time in the light of experience and ongoing product development programmes. It is the user's responsibility to ensure that this sheet is current prior to using the product

pH	> 8.0
VOC	< 100 g/L per EU Directive 2004/42/EC method
Theoretical Coverage	11.3 m ² /Lt @ 30 µm DFT 9.7 m ² /Lt @ 35 µm DFT
Wet Film Thickness (WFT)	60–70 µm per coat
Dry Film Thickness (DFT)	30–35 µm per coat — total system 60–70 µm DFT over 2 coats
Number of Coats	2 coats minimum (Standard system); 2 coats over PRO intermediate (PRO system)
Application Temperature	Substrate 5–35 °C Ambient 5–35 °C RH < 80 % Always 3 °C above dew point

Drying Information:

Drying times measured at 50 % RH. RH above 70 % significantly extends drying and recoat times. Good air movement around the coated object is essential.

Stage	10 °C	15 °C	20 °C	25 °C	30 °C
Touch Dry	60 min	45 min	30 min	25 min	20 min
Hard Dry	8 hrs	6 hrs	4 hrs	3–4 hrs	3 hrs
Recoat (min.)	6 hrs	5 hrs	4 hrs	4 hrs	3 hrs
Recoat (max.)	Extended	Extended	Extended	Extended	Extended

Surface Preparation:

Surface must be primed with SpecWood® WB Impregnating Preservative before this topcoat is applied. For PRO 3-coat architecture, apply SpecWood® WB Tannin & Stain Locking Primer between the impregnating primer and this topcoat. Refer to the System Build Guide.

Recoat over Existing SpecWood® Coating

Clean with mild detergent and water. Lightly abrade glossy or weathered areas with 220–300 grit sandpaper to provide mechanical key. Allow to dry. Apply 1–2 coats as required to restore the system DFT.

Application:

Mixing

Stir thoroughly with a flat-bottomed paddle or low-speed mechanical mixer until homogeneous and free of pigment settlement. Do not introduce air. Up to 5 % potable water may be added for viscosity adjustment.

Application Method

Property	Specification
Method	Brush, roller or airless spray
Thinner	Potable water (0–5 % for viscosity adjustment only)
Cleaner (wet)	Water — flush equipment immediately after use
Brush / Roller	Mohair roller or 3/8" nap synthetic recommended. Maintain a wet edge. Apply evenly to avoid lapping marks.
Airless Spray	Tip range 15–21 thou; pressure at the tip ≥ 150 bar
Work Stoppage	Flush all equipment with water. Cover containers tightly. Material may show surface skinning if partially used — filter and re-test viscosity before re-use.

SpecWood® Exterior Wood System — Build Guide:

This product is used in the following SpecWood® Exterior Wood System configuration(s). For the complete SpecWood® system architecture and substrate selector, refer to the SpecWood® Exterior & Interior Wood System Selector brochure.

This TDS describes Layer 3 (Topcoat) of the SpecWood® Joinery System. Use Joinery Standard (2-coat) for retail and general contract use including windows, doors, garden furniture and cladding; use Joinery PRO (3-coat with WB Tannin & Stain Locking Primer intermediate) for premium contract specifications.

DFT discipline is mandatory. A coating system applied at less than the specified DFT will fail prematurely regardless of the number of coats applied. Verify build thickness using a wet-film gauge during application or a dry-film thickness gauge after cure. Where DFT cannot be directly measured (penetrating products, oils), confirm consumption against the stated yield (m²/Lt).

System	Primer	Intermediate (PRO only)	Stain (optional)	Topcoat	Use Case
Joinery Standard	SpecWood® WB Impregnating Preservative × 1 coat Penetrating, residual film < 5 µm Yield: 3–5 m²/Lt	—	—	SpecWood® WB Acrylic Deck & Wood Outdoor × 2 coats DFT per coat: 30–35 µm Total: 60–70 µm DFT Yield: 11.3 m²/Lt @ 30 µm; 9.7 m²/Lt @ 35 µm	Windows, doors, frames, cladding, garden furniture
Joinery PRO	SpecWood® WB Impregnating Preservative × 1 coat Penetrating, residual film < 5 µm Yield: 3–5 m²/Lt	SpecWood® WB Tannin & Stain Locking Primer × 1 coat DFT per coat: 30–50 µm Yield: 13.7 m²/Lt @ 30 µm; 8.2 m²/Lt @ 50 µm	—	SpecWood® WB Acrylic Deck & Wood Outdoor × 2 coats DFT per coat: 30–35 µm Total: 60–70 µm DFT Yield: 11.3 m²/Lt @ 30 µm; 9.7 m²/Lt @ 35 µm	Premium joinery — windows, doors, cladding

Limitations:

- Substrate must be primed with SpecWood® WB Impregnating Preservative before this topcoat is applied.
- Moisture content of timber must not exceed 7 %.
- Do not apply under conditions of frost, dew, rain or imminent inclement weather.
- Apply away from direct sunlight on hot substrates (> 35 °C surface temperature).
- RH above 80 % significantly extends drying and recoat times — increase ventilation.
- Below the minimum film-forming temperature (5 °C), the film will exhibit poor coalescence and require removal and re-application.
- Test performance results obtained in a controlled laboratory environment. Field conditions vary.

Pack Sizes:

5 Lt, 20 Lt. Custom packaging available on request.

Storage & Shelf Life:

Property	Specification
Shelf Life	12 months at 25 °C from manufacture date in originally sealed containers.
Storage Temperature	5–35 °C, out of direct sunlight. Do not allow to freeze.
After Opening	Reseal tightly. Use within 30 days once opened.

Health & Safety:

Water-based system, low odour, low VOC. Contains a synergistic in-can and film biocide system — avoid prolonged skin contact and ingestion. Wear nitrile gloves, safety goggles and protective clothing. Apply in well-ventilated areas. Refer to the product Safety Data Sheet (SDS) for full information. The SDS takes precedence over this TDS in matters of health and safety.

Regulatory Information & Disclaimer:

The information contained in this Technical Data Sheet is based on laboratory testing and field experience and is provided in good faith. As the conditions of use are beyond our control, no warranty, expressed or implied, is given as to the suitability of the product for any particular purpose. Specialized Coating Systems (Pty) Ltd reserves the right to amend this document without notice. Always refer to the latest revision available from the manufacturer. Users should satisfy themselves through their own testing that the product is suitable for the intended application.