

# Wood Plastic Composite (WPC) Sealer

**WPC Sealer** is a waterborne protective coating designed for use over first generation Wood Plastic Composite substrates.

- **Product:** WPC Sealer
- **Product Code:** CTWS-XXX (Three figure suffix denoting Gloss level and size)
- **Standard Colour:** Clear
- **Gloss level:** Gloss, Matt
- **Spread rate:** Up to 20m<sup>2</sup> per Litre
- **Thinning/clean up:** No thinning required, clean up with water.
- **Drying Time:** 20-30 minutes touch dry at ambient temperature of 25° C with good ventilation. (Note drying times will be slower in cold damp conditions or if applied in high humidity)
- **Recoat Time:** 1-2 hrs
- **Exterior Exposure:** 12-18 mths (provided surface is maintained periodically with Composite Clean)
- **Interior Exposure:** 3 to 4 years (provided surface is maintained periodically with Composite Clean)
- **Container Size:** 2lt, 4lt, 10lt
- **Shelf Life:** 12 months in original un-opened package
- **Flash Point:** Non-Flammable

**Uses:** **WPC Sealer** has been designed to impart the natural look or wet look on wood plastic composites substrates. It will protect the surface against food, oil staining, dirt retention, mould and fungal growth whilst restoring water repellency. **WPC Sealer** is quick and easy to use and will enhance the beauty of the composite surface locking in pigmentation and slowing down the ageing process due to effects of water and UV exposure.

## SURFACE PREPARATION

- **Do not apply WPC Sealer below 10°C or above 25°C, a hot surface and will cause the product to flash off too fast. This will create surface defects as lap marks, to prevent this from happening, apply either very early in the morning or later in shade, under cover or coat prior to installation. (Generally if the surface is too hot to walk on bare foot, do not seal.) Alternatively Temperatures below 10°C will greatly slow down the curing process and may lead to film defects.**
- **Do not apply with relative humidity above 85% or if rain is imminent, this may affect the curing process and may cause drying problems and overall product performance.**
- **Substrate must be dry. Do not apply on wet or damp surface.**
- **Avoid application in direct sunlight. (to avoid blotchy uneven look apply over small sections (three full lengths at a time) by lambswool applicator/brush/roller/spray and immediately wipe off any excess WPC Sealer evenly, do not allow to pool on the surface)**
- **Do not apply over existing solvent or water based oils/coatings other than Deck Protect products, strip old coatings using Deck Protect Strip refer technical data for instructions.**
- **Not recommended for use on polymer capped 2<sup>nd</sup> generation composites.**

## New Wood Plastic Composite

### Cleaning Procedure

#### Brushed side / Smooth side

1. Prepare all Composite Wood surfaces by applying **Composite Clean** treatment solution as per mixing rate of 12:1 as shown on the label. Apply at this volume rate for normal treatment (**Composite Clean** is a low suds action, deep penetrating conditioner treatment). For stronger preparation solutions refer to the label or data sheet.
2. Once the **Composite Clean** is applied to the deck or cladding, scrub the surface with a stiff bristle broom or mechanical scrubber on larger decks and wash off after approximately **3 / 5** minutes with clean water. Use a squeegee to remove any excess water from the deck as this will also aid in the drying time.
3. Allow the surface to dry

## Weathered Wood Plastic Composite

#### Brushed side / Smooth side

1. Depending on the condition of the surface, this should be treated and prepared as per the steps for new Wood Plastic Composite – Cleaning Procedure, with the exception that the product may need to be treated a second time to remove all stubborn oxidization, dirt, fungus / algae, tree sap, tannins or food stains. This will be a case by case site evaluation.
2. For removal of general soiling or stains from Wood Plastic Composites surfaces we recommend that they should be treated as soon as possible with **Composite Clean** at the recommended strengths as indicated on the label. For old stubborn stains, especially BBQ oil and fat staining use **Composite Clean** at a stronger concentration. Depending on the age and degree of soiling, a re-application may be required to remove the residue of the oil / fat stain. Thoroughly rinse with water.
3. Allow the surface to dry

## Application

### Sealing - New Wood Plastic Composite 6 - 12 months old

**WPC Sealer** may be applied to Wood Plastic Composite screening, decking and furniture. Wood Plastic Composites will lighten over time, surfaces may also be affected by imbedded dirt, stains, or microbial growth and therefore the method of coating should be decided on the degree of deterioration. Also, noting that the finish coating will strengthen or deepen the existing colour of the treated surfaces.

After cleaning and drying the Wood Plastic Composite as detailed above, apply **WPC Sealer** as follows:

Using a lambswool applicator, pressure spray or brush, apply a minimum of 2 coats of **WPC Sealer** to the surface.

- Apply First coat to 3 full lengths of board at a time thoroughly working the sealer into the composite fibres. Do not apply heavy coats which will cause the **WPC Sealer** to pool in depressions, back wipe any excess evenly.
- Allow thorough drying for approximately 1-2 hours or as required depending on weather conditions/film builds and repeat a coat of sealer as detailed above, if required apply 3 thin coats to achieve optimum results.

Sealing the surface will slow the effects of UV fading, and will require a recoat approx. every 12 to 18 months, in open areas subject to full exterior exposure and 3 to 4 years for surfaces which are under cover.

### **Weathered – Wood Plastic Composite or previously treated Wood Plastic Composites requiring colour restoration 12 – 36 mths**

Previously coated surfaces requiring colour restoration must be stripped back to raw composite using **Deck Protect Strip (refer data sheet or label instructions)**.

Surface must then be cleaned with **Composite Clean** as illustrated under ‘Cleaning Procedure’ and allowed to thoroughly dry.

After the surface has been cleaned and is completely dry, apply **WPC Refresh** and **WPC Sealer** as follows

Apply **WPC Refresh** thinly directly onto the surface. Ensure that the applicator, brush or rag is not over loaded, remove all excess **WPC Refresh** (this is important), and if the product pools on the surface remove to ensure an even finish. Apply to 3 full lengths of board at a time and continue to do this until completed. Depending on the weather conditions, the product will dry within 2 to 4 hours. To shorten drying time, back wipe the product using a dry lambswool applicator. (Three boards at a time) Ensure that you do not walk on wet **WPC Refresh** as this will leave foot prints. If this does happen, simply rub more of the **WPC Refresh** onto the affected area and this will remove any damage, this can be done any time prior to the application of **WPC Sealer** or **WPC Traction Sealer**

Once **WPC Refresh** has dried, apply 2 Coats of **WPC Sealer** as outlined in ‘Application’.

### **Aged – Wood Plastic Composite over 3 years**

If no colour restoration is required: Seal as per Heading – ‘Application’ this will seal in the existing colour and protect the surface from UV degradation, dirt, water, and oil staining.

If colour restoration is required: Apply **WPC Refresh** and **WPC Sealer** as per ‘Weathered - Wood Plastic Composite’ this will restore the original colour and protect the surface from UV degradation, dirt, water, and oil staining.

## **Slip Resistant Finish as per AS 4586-2013** **(As Certified by ATTAR. Reference 15/9596.1 dated 19/11/2015)**

Refer to **WPC Traction** data sheet or web site for full application procedures and grit levels for slip resistance to wood plastic composite (WPC) 1<sup>st</sup> generation products. This product has been tested on Modwood products.

### **Maintenance**

Extended exterior durability can be achieved provided substrate is protected from elements of weather and direct sunlight. Intermittent conditioning every three months with **Composite Clean** keeping the surface free from tree sap, dirt, algal, mould or lichen growth will also extend the appearance and life of untreated and treated wood plastic composites.

**The performance and durability of WPC Sealer is ultimately dependent on the condition of the wood plastic composite substrate. It is therefore the discretion of the end user to ensure surfaces are kept clean as required and re-coated every 12 – 18 months in fully exposed areas or 3 to 4 years for under cover areas to ensure extended life. Heavy foot traffic areas exposed to direct sunlight will show obvious signs of wear quicker than shaded, light traffic areas.**

**When the sealed surface starts to look weathered and or the colour has severely faded, treat with Composite Clean and re-apply a maintenance coat of WPC Sealer.**

For further information on product use or product selection, please consult nearest distributor or place of purchase or refer to Deck Protect Web site at [www.deckprotect.com.au](http://www.deckprotect.com.au)

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