

HYDRO WOOD
Updated Apr'23


Hydro Wood is water-based pure acrylic product. It is an environmentally favourable green product formulated with low VOC (Volatile Organic Compound) for interior wood surface. It is formulated with a solvent-free resin to limit air pollutants and has an extremely low odour during application and drying. As it is fast drying as compared to solvent based, it can be recoated within the same day. It provides colour to wood surfaces and highlighting the natural wood grains. It is easy to apply and forms a tough paint film with excellent gloss, scratch resistance for foot traffic, durability and fungus resistance.

Hydro Wood special formulated with Dry film Anti-bacterial property which protects the environment from bacteria such as MRSA, E-Coli and Staphylococcus Aureus.

Product Features:

- Environmental-friendly green paint for wood
- Low VOC
- Fungus resistance

Paint Type	Product Type	Finishing	Recommended Substrate	Pack Size
Water based	Interior	Satin	Wood surfaces including parquet flooring, furniture and wood panels	1 Litre, 5 Litres

Composition

Pigment	: Iron Oxide, Carbon Black and Organic Pigments
Binder	: Multifunctional Acrylic Polymer
Thinner	: Water

Technical Data

Drying Time	: Touch Dry : 30 minutes : Hard Dry : 4 hours
	Drying time above is based on temperature 28 – 32 °C, humidity 70 – 80%
Recoating Time	: 2 – 3 hours (minimum)
	Recoating time above is based on temperature 28 – 32 °C, humidity 70 – 80%
*Important Note:	
Drying Time and recoating time are strongly depending on environment ventilation, paint thickness, environment temperature, environment humidity, number of coats applied. So drying time and recoating time provided is for guide only.	
Dry Film Thickness	: 20 – 30 µm per coat (based on substrate condition)
No. of Coats	: 2 - 3 coats
Theoretical Coverage	: 7 – 11 m ² per litre per coat (Actual coverage is dependent on substrate condition, application method, application condition and finishing appearance)
Volume Solid	: ~ 32%
Shelf Life	: Up to 36 months in tight sealed container

Application Method

Brush / Roller	: The paint is ready for use after thorough stirring. Dilute the paint with 5% of Water, if necessary. Recommend to use Nippon Paint Synthetic Brush or Nippon WB 4 Inch Roller for application. : Dilute the paint with 5% - 10% of water if necessary
Conventional Air Spray	

Recommended Coating System

Top Coat	: Hydro Wood : 2 - 3 Coats (Remark: Finish colour could vary depending on type and colour of the wood being applied. Thicker paint film will also give a darker colour)
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Surface Preparation

Smoothen the surface to be painted using floor sander or sand paper of Grade #80 or #100. If necessary, fill wood grain with appropriate filler and then smoothen with sandpaper. Ensure that the surface is clean, dry and free from wax before applying the first coat. Allow the paint to dry. Dry and sand lightly between the 1st and 2nd coat.

Remove all unstable paint film, dust, oil, wax and other foreign matters. Particular care is necessary on previously waxed surfaces and thorough mechanical sanding is recommended to remove all wax. Presence of wax on substrates will affect the drying and adhesion of Hydro Wood.

If the previous paint film is in sound condition and without wax, smoothen it with sand paper. Clean off and dry.

Cleaning

Clean up equipment with water immediately after use.

Safety Precautions

- Keep container tightly closed and keep out of reach children or away from food and drink.
- Ensure good ventilation during application and drying.
- When applying paint, it is advisable to wear eye protection.
- In case of contact with eye, rinse with plenty of water immediately and seek medical advice.
- Remove splashes from skin by using soap or water.
- Paint must always be stored in a cool place.
- When transporting paint, care must be taken. Always keep container in a secure upright position.
- Dispose any paint waste in accordance with the appropriate Environment Quality Regulations.

Note

* Theoretical Coverage is based on a mathematical formula

$$\left[\frac{\text{Volume Solid \%} \times 10}{\text{Dry Film Thickness}} \right] = \text{m}^2/\text{lit}/\text{coat}$$

and does not consider LOSS FACTORS.

Variables like porosity of substrate, application method, dilution ratio, dry film thickness, opacity and so on will affect the loss factor and can vary from 30% - 50% or even more.

The above information is given to the best of our knowledge based on laboratory tests and practical experience.

However, since we cannot anticipate or control the many conditions under which our products may be used, we can only guarantee the quality of the product itself.

We reserve the right to alter the given without prior notice.