

# Sansin

## Wood Protection



**SILVA**   
TIMBER PRODUCTS



## Naturally Perfect Wood Protection

For over 25 years Sansin have pioneered the use of environmentally-friendly water-borne wood protection technologies that deliver outstanding performance. With a wide range of wood preparation and protection products, Sansin offer solutions for external and internal applications, designed to enhance the natural beauty of your wood.

### Why choose Sansin?

- ✓ Natural ingredients modified for enhanced performance
- ✓ Bonds directly with wood rather than forming a film
- ✓ Will not crack, peel or blister
- ✓ Forms integral part of wood's cell structure
- ✓ Safe for you and the environment
- ✓ Low odour
- ✓ Easy to apply and maintain
- ✓ Long lasting performance



### The best of both oil and water

Why choose between an oil or water based solution when you can have the benefits of both? Sansin Enviro Stains combine the two, carrying natural oils and resins deep into the wood's cell structure using water. As the water evaporates, Sansin bonds directly with the wood substrate, forming a tough, durable barrier that won't crack, peel or blister.



### Comprehensive colour range

Sansin Enviro Stains let the natural personality of your wood shine through. Inspired by the natural world, Sansin have created over 80 stunning colour tones, so you can be sure of finding a colour to suit your project.



In addition, we can mix any colour to order from Sansin's Precision Coat range of over a thousand additional colours.

# Environmentally Friendly

Many companies can claim to be 'green' and friendly to the environment, but Sansin truly live and breathe their environmental practices, as important now as when Sansin first pioneered the water based alkyd solution over 25 years ago.

 **Natural by design**  
Sansin's technology is inspired by a thousand year-old tradition that uses nature's own ingredients – resins and gums from the heartwood of trees – to deliver sustainable protection.

 **Low VOC content**  
Recent EU legislation restricting the Volatile Organic Compound (VOC) content in paints and stains has forced a number of manufacturers to change their formulas to comply with new regulations. The limit for exterior paints and stains is now 130 grams per litre\*, however Sansin's original formulas range from 0 - 66 grams per litre, so it is as safe to use as it always has been.

 **No harmful ingredients**  
Paraffin wax is often used in many water and solvent-based coatings to protect against moisture damage, however this surface layer can be easily eroded by exposure to UV radiation. In fact, just 5 hours of direct sunlight can reduce water repellency by over 60%\*\* . Sansin coatings use no paraffin and contain modified natural oils and resins, impregnated with special UV protectants - so every cell of your wood is protected.

 **Focus on responsibility**  
Sansin strives to minimise waste and ensure responsible handling of waste products. A unique rinse water recycling system allows production cleaning processes to reuse raw materials otherwise wasted. Regular facility improvements and operating initiatives such as the Sansin Second Nature® program focus on energy savings, waste reduction and recycling.

 **Second Nature®**  
Wood is Sansin's passion and their commitment to protecting it and the environment is paramount. Sansin's vision is to continually improve their products alongside their environmental practices, as part of the Sansin Second Nature® program. Sansin are pursuing initiatives such as using alternative green energy, smart car technology, and smart manufacturing processes, moving closer to the objective of operating a sustainable zero waste production facility.

\*The Volatile Organic Compounds in Paints, Varnishes and Vehicle Refinishing Products Regulations 2012.

\*\*Water-based vs. solvent-based formulations. Wood Science Faculty, University of Toronto / Jan.2002.

## Sansin SDF

With fast and easy application, Sansin SDF provides tough, effective protection for cladding, log cabins, decking or fences.



<b>Suitable for:</b>	Cladding, decking, fencing, log cabins
<b>Application:</b>	One or two coats
<b>Maintenance Cycle:</b>	3-6 years on vertical surfaces 2-3 years on horizontal surfaces
<b>VOC Content:</b>	32 grams per litre
<b>Colour Tones:</b>	80 colour tones as standard Precision Coat colour-matching available

Sansin SDF's specially formulated oils and resins penetrate deep into the wood, providing outstanding weather and UV protection that won't crack, peel or blister.

Not only does Sansin SDF protect the outside of your wood, it also protects the inside by allowing the wood to 'breathe'. This helps prevent moisture from getting trapped in the wood and causing rot.

It is UV resistant, water-repellent, low in VOC content, and non-flammable with easy soap and water clean-up.

With as little as one application, this unique formula provides a rich and attractive coating that offers lasting protection.

Thanks to the unique water-borne technology, Sansin SDF can be applied even to wood with a high moisture content - and because SDF is designed to be highly water repellent, it's a natural choice for homes and structures in moisture-rich environments.

Maintenance cycles can be planned every two to three years on horizontal surfaces (decks, etc.) and three to six years on vertical surfaces depending on the number of coats applied.

Sansin SDF can be applied with a second coat if desired, and may be used as the penetrating primer coat to Sansin ENS.



## Sansin ENS

Durable two-coat protection for external joinery, fascia and trim or a top coat for cladding.



<b>Suitable for:</b>	Furniture, windows, doors. Satin top coat for cladding
<b>Application:</b>	Two coats
<b>Maintenance Cycle:</b>	3-6 years on vertical surfaces
<b>VOC Content:</b>	66 grams per litre
<b>Colour Tones:</b>	80 colour tones as standard. Precision Coat colour-matching available

Sansin ENS brings out the natural grain and character of your wood with a lustrous satin finish.

Highly resistant to scraping and abrasion, Sansin ENS delivers tough, long term protection for windows, doors, fascia and trim, garage doors and garden furniture.

Recommended for dry wood applications, it is highly UV resistant, washable, low in VOC content and non-flammable with easy soap and water clean-up.

Sansin ENS provides a rich and attractive coating with exceptional durability and weather protection.

For increased performance use Sansin SDF for the first coat to ensure penetrating protection.

Sansin ENS offers excellent adhesion characteristics and can be applied over many waterbased or alkyd products to enhance the protection and beauty.



# Sansin Dec

A two-coat solution specifically formulated for the rugged protection of decks



<b>Suitable for:</b>	Decking, fencing
<b>Application:</b>	Two coat
<b>Maintenance Cycle:</b>	1-4 years on horizontal surfaces
<b>VOC Content:</b>	39 grams per litre
<b>Colour Tones:</b>	80 colour tones as standard Precision Coat colour-matching available

Sansin Dec is a formulation of a high quantity of solids and stronger pigmentation so it looks better and lasts longer. Since even the toughest decks need to be maintained regularly, Sansin Dec also makes it easy to keep your deck looking beautiful with just a simple clean and maintenance coat.

Sansin Dec is a penetrating environmentally-friendly two-coat formula designed for wood decks.

Ideal for cedar, thermally modified woods, pressure treated softwoods and exotic hardwoods, Sansin Dec is UV resistant, water-repellant, and non-flammable with easy soap and water clean-up.

The modified natural oils in Sansin Dec penetrate deep into wood, maintaining the high moisture content (up to 25%) frequently found in wood deck materials. This deep penetration means the finish will not crack, peel or blister and can withstand heavy foot traffic in even the busiest environment.

Although high in solids, Sansin Dec remains breathable and easy to maintain. It's the natural solution for maintaining the beauty and integrity of your deck.



# Cleaners & Sealers

Easy to apply and safe to use products for protecting and preparing wood prior to finishing.

Whether it's an existing surface in need of care, or new wood for installation, Sansin's range of wood restoration and cleaning products allow you to restore tired looking decking, cladding, fencing or shingles to a like-new appearance, or clean wood ready for a protective finish to be applied.



## Wood Sealer

For new and existing applications

- ✓ Protects against moisture damage and wood rot
- ✓ Aggressively repels water
- ✓ Allows wood to weather naturally
- ✓ 3 year limited warranty
- ✓ Zero VOC Content



## Wood Cleaner\*

For new and existing applications

- ✓ Biodegradable
- ✓ Restores the natural colour of wood
- ✓ Removes weathering, mould, algae, mildew and iron stains
- ✓ Easy rinse-off application



## Paint and Stain Remover\*

For existing applications of failed stains and paints

- ✓ Biodegradable
- ✓ Removes extreme weathering, water stains, mould and mildew
- ✓ Low VOC Content
- ✓ Removes most oil or latex stains, paints and varnishes



## Multi-Wash

For existing applications

- ✓ Removes mildew, dirt and rust stains
- ✓ Concentrated cleaner
- ✓ Suitable for wood, concrete, uPVC and cement fibre
- ✓ Biodegradable

\*Includes 250g Sansin Wood Lightener - Brightens all wood surfaces, restoring the original natural colour of the wood after treatment.



## The Importance of Sanding

The secret to a perfect finish is to sand the surface before applying any coating. A simple sand allows more stain to penetrate the wood, providing an even, consistent and long-lasting finish. Studies have proven sanding to extend the life of a finish by up to 3 times compared to an unsanded surface.\*

### Remove mill glaze

Mill glaze occurs when heat from the planing and kiln drying processes brings water soluble extractives to the surface, causing a glaze-like finish to form. Mill glaze can be removed with a simple sand, allowing the pores underneath to breathe again and accept finish more readily.

### Create an even surface

Sanding removes any minor differences in level and surface texture that may not be immediately visible. An uneven surface will absorb more stain in some areas than others. On horizontal surfaces such as decks, slightly raised areas will receive more wear and dirt and moisture may collect in areas with raised grain. Sanding creates a smooth flat surface that allows the stain to penetrate evenly, prevents dirt and moisture accumulation and allows for even wear.

### Deeper porosity

Along with removing mill glaze, excess fibre and uneven surfaces, sanding opens up the pores of the wood, allowing finish to penetrate deeper into the cell structure of the wood.

### Sanding service

To help minimise on-site preparation work, Silva Timber offer a sanding service on all our decking and cladding products, alongside our pre-finishing options. Contact Silva Timber to discuss your requirements.



## Application

Following the preparation stage, stain application is the final, and most rewarding part of the wood protection process.

Sansin Enviro Stains can be easily applied in a variety of ways.

- ✓ Brushing
- ✓ Dipping
- ✓ Hand or automated spraying (low pressure or airless)

It is recommended to always flood the surface to the point of saturation (approximately 5-6 wet mil). If using a spray application remember to back brush following the grain pattern to ensure consistent penetration.

Full application instructions can be found on the product label or via [www.silvatimber.co.uk](http://www.silvatimber.co.uk)

## Pre-finishing

Protect timber from the outset with our pre-finishing service

Silva Timber can apply Sansin stain to decking, cladding, fencing and other timber components using our factory pre-finishing service.

Pre-finishing reduces time and onsite labour costs by allowing cladding and decking to be installed immediately, regardless of the weather.

With over 80 standard colour tones available, Sansin provides a colour to suit any project. Alternatively, take advantage of our Precision Coat mixing service to create a colour of your choice.

\*The effect on surface roughness on the performance of finishes. Forest Products Journal 45 #7/8.

## How long will it last?

When it comes to wood protection, one question is asked more than any other - when will I need to recoat?

It's a difficult question to answer as there are so many factors to take into consideration. The design and orientation of the building, wood species, preparation taken, exposure to sunlight, moisture, foot traffic, general cleaning and how translucent the finish is, among other variables, will all influence the life of finish.

Luckily, Sansin invest heavily in research and development, ensuring that the ingredients and processes that go into making Sansin Enviro Stains are of the highest quality to produce exceptional results.

You can expect Sansin Enviro Stains to provide many years of performance and beauty to your wood applications. Sansin Enviro Stains boast a life expectancy of at least 3-6 years on vertical surfaces, and 2-3 years on horizontal surfaces before a recoat may be necessary. Compare this to the industry standard of 1-2 years, then Sansin truly is the natural choice for protecting your projects for years to come.

## Which product to choose

	Natural	Semi-Transparent	Solid
Decking	Dec Natural Dec Translucent	Dec Saturated Dec Ultra-Saturated	ENS Saturated* ENS Ultra-Saturated * Precision Coat
Cladding	SDF Natural ENS Natural*	SDF Translucent SDF Saturated SDF Ultra-Saturated ENS Translucent*	ENS Saturated* ENS Ultra-Saturated* Precision Coat
Fencing	Dec Natural Dec Translucent SDF Natural	Dec Saturated Dec Ultra-Saturated SDF Translucent SDF Saturated SDF Ultra-Saturated	Precision Coat
External Joinery (inc. Windows & Doors)	ENS Natural	ENS Translucent	ENS Saturated ENS Ultra-Saturated

\*Sansin ENS is intended for use as a top coat where a satin finish is desired for cladding and decking.

## The secret to beautiful colour

Sansin harness the power of nano technology to create colour like you've never seen before in wood protection.

By atomising high quality pigments into nano-particles (less than one billionth of a metre), Sansin are able to combine the pigments with the protective oils and resins in Sansin Enviro Stains on a molecular level.

Once applied to the wood substrate they penetrate deeply, pulling the pigmentation down into the wood to provide a long-lasting, vibrant and uniform colour.

The 80 standard Sansin Colour Tones are available in 4 different translucencies. If that's not enough, we can custom match to your specification using our Precision Coat service.



# Natural Tones

Let the natural beauty of your wood shine through.



03 Driftwood



04 Weathered Wood



05 Pine



06 Raw Sienna



10 Sahara Mist



14 Monterey Red



15 Light Honey



16 Autumn Gold



17 Espresso



19 Suede



44 Wheat



45 Camel



1101 Cedar



1102 Banff Brown



1103 Canyon Red



1104 Roasted Almond



1105 Natural  
(Harvest Gold)



1106 Gunstock



1107 Golden Wheat



1108 Crimson



1109 Copper



1110 Champagne



1111 Cocoa



1112 Java

# Translucent Tones

Rich hues that reward the eye.



20 Pickled White



21 Washed White



22 Parchment



23 Maple



24 Butternut



25 Acorn



26 Smoke Blue



27 Onyx



28 Mushroom



29 Light Oak



30 Avocado



31 Blue Ridge Grey



34 Teak



35 Rosewood



39 Stone Grey



41 Olive



42 Dove Grey



47 Brushed Sable

Colour may vary depending on texture, grain, colour, porosity and type of wood and may not be exactly as illustrated.

## Saturated Tones

Colour that stands out in a crowd.



43 Limestone Trail



50 Cape Cod Grey



51 Silver Grey



52 Opaque White



53 Silver Birch



54 Barn Board



55 Tan Opaque



56 Oxford Opaque



57 Mahogany



58 Mocha



60 Garnet



61 Heritage Blue



62 Baltic Blue



63 Kelp



64 Sage Green



65 Mushroom Opaque



66 Moss Green



67 Chesapeake



68 Hunter Green



69 Forest Green



71 Slate Blue



73 Red Oak



74 Ocean Bay Blue



75 Atlantic Blue

## Ultra Saturated Tones

Powerful colour that makes wood sing.



59 Burgundy



76 Blue Jay



77 Indigo Blue



78 Colonial Yellow



86 Deep Orange



87 Primary Red



88 Muskoka Red



89 Yellow Ochre



90 Primary Yellow



92 Heritage Red



93 Federal Blue



94 Hibiscus

## Sansin Precision Coat

Need more choice? Sansin Precision Coat offers an extensive range of colours to match your exact specification.

Available in Sansin SDF, Dec and ENS or as a solid colour stain, Silva Timber can mix colours to your requirements.

Sansin Precision Coat is also available with our factory pre-finishing service. Contact Silva Timber for more details.



Colour may vary depending on texture, grain, colour, porosity and type of wood and may not be exactly as illustrated.



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