



Natural Long Life Opaque Finish 3in1 [eco]

Texture-preserving, cloth-matt finish for interior and exterior wood



Colour	Availability			
	Quantity per pallet	672	200	96
	Size / Quantity	3 x 0,75 l	2 x 2,5 l	1 x 5 l
	Type of container	Tin bucket	Tin bucket	Tin bucket
	Container code	01	03	05
	Art. no.			
Scandinavian red	7659	■		
cream (RAL 9001)	7660		■	
pigeon blue (RAL 5014)	7662	■		
zinc yellow (RAL 1018)	7665	■	■	
Gentian blue (RAL 5010)	7666	■	■	
flame red (RAL 3000)	7667	■	■	
special colours*	7664		■	■

Application rate

Approx. 80 - 100 ml/m² per coat



White and light colours:

3 coats of Natural Long Life Opaque Finish 3in1 [eco]

Alternative for an even greater sealing effect: 2x Sealing Primer & 1x Natural Long Life Opaque Finish 3in1 [eco]

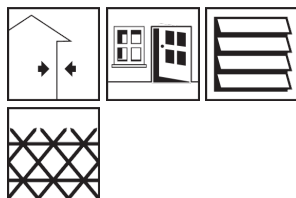
Medium and dark colours:

2 coats of Natural Long Life Opaque Finish 3in1 [eco]

Brilliant, pure intense colours:

Apply a white undercoat

Range of use



- For use on interior and exterior wood
- Dimensionally stable wood building elements: e.g. windows and doors
- Wood building elements with limited dimensional stability, e.g. folding shutters, matchboarding, summerhouses
- Wood building elements with no dimensional stability: e.g. fences, framework, carports, planking
- Primer, intermediate and finishing coats
- Playground equipment
- Wooden beehives, bee boxes and other wooden elements used in beekeeping
- Do not apply to freshly impregnated wood. Observe fixation time.
- Follow with a protective coating of clear Natural Long Life Stain [eco] on chairs, benches, etc. to prevent bleeding.

Property profile



- 3-in-1: sealing primer, intermediate coating and top coat
- Water-based with a very low solvent content
- Made from at least 70% renewable raw materials
- Bee-friendly formula
- A vegan product based on the information available to us
- Block resistant (in accordance with Code of Practice HO.03)
- Non-drip
- Elastic
- Does not flake
- Weather-resistant and UV-resistant
- Less discolouration due to water-soluble substances in the wood
- Long intervals between renovations
- Low emissions and highly opaque
- More ecological and sustainable than conventional products thanks to the use of bio-based binders



- Classified as non-spontaneously combustible according to EPH test report*
- Breathable
- Recyclable metal container
- All colours are mixable with one another
- Brilliant, pure, intensive colours have a lower hiding power due to their pigments. We recommend fully pre-coating such areas with a matching coloured primer if using critical colours.

Characteristic data of the product

Binder	Based on plant oils and biomass-balanced binder
Density (20 °C)	Approx. 1.2 g/cm ³
Odour	Mild
Degree of gloss	Cloth matt

The values stated represent typical characteristic data of the product and are not to be understood as binding product specifications.

Certificates

- **DIN EN 71-3 "Migration of certain elements"**
- **EPH test report on spontaneous combustion**
- **Tested bee compatibility**

Test standards

Low emissions under the AgBB scheme

Additional information

- **Colour chart**
- **Sustainability data sheet**

Possible system products

- **Wood Preservative Primer* (2066)**
- **Wood Impregnation [eco] (0652)**
- **All Primer (5420)**
- **Sealing Primer (3440)**
- **Stair & Parquet Varnish (2390)**

*Use biocidal products carefully.
Always read the label and product information before use.

Preparation

- **Substrate requirements**
Dimensionally stable wood building elements: wood moisture content 11-15%
Wood building elements with limited or no dimensional stability: wood moisture content max. 18%
- **Substrate preparation**
Thoroughly remove any dirt, grease and non-adhering old coatings.
Sand grey and weathered wood surfaces down to sound, bright wood.
Remove loose knots and any surface resin with a suitable product (e.g. Remmers Thinner & Brush Cleaner).
In order to avoid the use of wood preservatives as far as possible, the construction should be designed to be water-repellent (avoid horizontal surfaces, open end-grain wood, capillary joints, water and moisture accumulation points, contact with splash water, sharp edges). Pre-treatment with Wood Impregnation [eco] improves the hydrophobic effect.
Exterior wood that needs to be protected against soft rot and blue stain must be pre-treated with a suitable wood preservative* (*Use biocides safely. Always read the label and product information before use).
Observe BFS Code of Practice No. 18 "Coatings on Wood and Wooden Working Materials in Outdoor Areas".
Natural Long Life Opaque Finish 3in1 [eco] (in white and light colours) reduces yellow stains caused by water soluble substances in the wood. For additional protection, prime using Remmers Sealing Primer.
To avoid bleeding of substances in the wood into adjoining building elements (e.g. infilling in framework areas), treat the wood all round.
Old weathered carbolineum coatings can only be coated with dark colours. Always test first with a trial coating.

Directions



- **Conditions for use**
Temperature of the material, air and substrate: from min. +10 °C to max. +25 °C.

Stir the material thoroughly and apply quickly by brushing or rolling in the direction of the grain.
Apply a second coat once the first has dried.
Apply a further coat if required.
All colours can be mixed with one another.
When coating continuous surfaces, only use materials with the same batch number as slight differences in colour, gloss and texture may occur.
Seal opened containers well and use contents as soon as possible.

Tips on use



Check colour, adhesion and compatibility with the substrate by setting up a trial area.
Before coating technically modified woods and wood-based materials, apply the product to a trial surface and conduct a suitability test on the desired area of use.
Cut end-grain surfaces at the bottom to create a water-drip edge.
End-grain wood preservative should first be applied to end-grain wood and cut surfaces in order to protect them against moisture.



Do not use on wood impregnated with boron salts.
Ensure sufficient ventilation when applying indoors.
Areas that are being coated or dried should be protected against rain, wind, sunlight and condensation.
The colour shown on the sample does not appear until the material has dried.
It should be noted that the tests carried out by EPH could not take into account all possible scenarios that might occur in practice. For example, contact of objects and media contaminated with this product, such as rags or dust, with other highly flammable agents, such as dust containing cellulose nitrate or certain solvents, could lead to conditions that result in ignition.
The product should not be applied at the same work stand as NC-based varnishes or stains. Collect any textiles soiled with the product (e.g. cleaning rags, work clothing) in fire-resistant waste containers and dispose of properly.

■ **Drying**

Ready for overcoating: after approx. 6 hours
Practice values at +20 °C and 65% relative humidity.
Low temperatures, poor ventilation and high humidity delay drying.
The product's insulating effect may be impaired if it is diluted too thinly, if the wood is too wet or if the recommended coating sequence, application volumes and drying times are not observed. With water-based coating systems, there is always the residual risk that substances contained in the wood will leach out.
Drying may take longer depending on the type of wood, e.g. oak, due to substances it contains.

■ **Thinning**

Ready to use

Notes

DIN EN 71-3 "Migration of certain elements":
This product complies with the limits for the migration of heavy metals to children's toys according to DIN EN 71-3 and thus fulfils one of several further requirements for the safety of children's toys according to the EU "Toy Directive" (2009/48/EC).

Bright (especially white), solvent-based and water-dilutable oil and alkyd resin paints will exhibit varying levels of yellowing during their useful life.
On planed larch and softwoods with a high resin content, the coating may have reduced adhesion and resistance to weathering. This is especially the case on horizontal year rings, knots and areas of winter growth that are high in resin. Maintenance and renovation must be carried out more frequently on these surfaces. The only remedy for this is pre-weathering or very coarse sanding (P80). If these wood types are rough-sawn, considerably longer maintenance and renovation intervals are to be expected.
Observe the regulations concerning design principles for wood protection.
Do not use on horizontal surfaces without drainage slopes and without edge radius, avoid accumulated moisture.

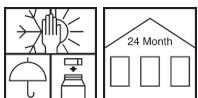
Tools / Cleaning



Brush with synthetic bristles, flat brush, short-pile microfibre roller

Clean tools immediately after use with water and detergent.
Ensure that any residue from cleaning is disposed of correctly.

Storage / Shelf life



If stored unopened in its original container in a cool, dry place and protected against frost, the product will keep for at least 24 months.
Use the contents of open containers as quickly as possible.

Safety data / Regulations

For further information on the safety aspects of transporting, storing and handling the product and on disposal and environmental matters, please see the current Safety Data Sheet.

EU Ecolabel

DE-044-052

Disposal

Larger quantities of leftover product should be disposed of in the original containers in accordance with the applicable regulations. Completely empty, clean containers should be recycled. Do not dispose of together with household waste. Do not allow to enter the sewage system. Do not empty into drains.

Biocidal Products Regulation

Contains a biocidal product (in-can preservative) with the biocidal agents CMIT/MIT (3:1) for protecting the container content from deterioration by microbial organisms (germs, yeast, etc.). Please note the processing guidelines carefully!



VOC content as per the
"Decopaint" Directive
(2004/42/EC)

EU limit value for the product (cat A/d): max. 130 g/l (2010).
This product contains < 5 g/l VOC.

VOC	
Kat.	A/d
2010:	130g/l
max.:	5g/l

Please note that the data and information given above have been calculated as guidelines in the laboratory and from real-life experience and are therefore not binding as a basic principle.

This information is therefore of a general nature only and describes our products and how they are used and worked with. In this respect, it must be borne in mind that the varied and diverse nature of the

prevailing working conditions, materials used and construction sites encountered means that not every individual case can be covered. In this respect, we therefore recommend either conducting tests or liaising with us in the event of any doubt. Unless we have provided express written assurance of the products' specific suitability or characteristics in respect of a contractually stipulated intended use, any technical application-related advice or instruction will never

be binding, even though it is provided to the best of our knowledge. In all other respects, our general terms and conditions of sale and delivery shall apply.

When a new version of this Technical Data Sheet is published, it shall replace the previous version.