



Aqua NEL-56/tm Natural Effect Varnish

Water-based natural effect varnish for dimensionally stable wood building elements with direct or indirect exposure to weather



Colour	Availability		
	Quantity per pallet	672	200
	Size / Quantity	0,75 l	2,5 l
	Type of container	Tin bucket	Tin bucket
	Container code	01	03
	Art. no.		
clear	7151	■	■
special colours	7152	■	■

Application rate

60 - 80 ml/m² per coat

Project-specific deviations should be determined by way of a trial coating.
Depending on the processing method, wood type and wood surface.



Range of use



- For all dimensionally stable wood building elements made of light-coloured softwood and hardwood
- Windows, exterior doors & conservatories
- Wood-aluminium composite structures
- Post-rail constructions
- Natural colours for surfaces exposed to direct weathering – clear version for protected constructions
- Intermediate and finishing coats
- For use by professionals

Property profile



- Cloth matt surface with very little emphasis of grain: the treated wood has a natural looking finish
- UV absorbers reduce darkening of the wood
- Added bonus of being resistant to scratches and hand cream when surface is subjected to normal use
- Surfaces show no tendency to become glossy
- Clear version of the product for protected constructions provides the best possible natural look
- Natural colours for surfaces exposed to direct weathering: pigmented versions of the product are available for the different types of wood so as to provide a natural look with good UV protection

Characteristic data of the product

Binder	Special PU/acrylate polymers
Density (20 °C)	1.02 - 1.04 g/cm ³
Viscosity	approx. 1000 mPas
Odour	Mild

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

Possible system products

- Aqua IG-15 Impregnation Primer IT* (7145)
- Induline SW-910 (3777)
- Aqua HSL-35/m Premium Wood Protection Stain 3in1* (7120)
- Aqua OZA-90 Open Time Additive (5320)

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

Preparation

- Substrate requirements
The substrate must be clean, dry, free of dust, grease and loose substances, and prepared in the correct manner.
Dimensionally stable wood building elements: wood moisture content 11-15%

- Substrate preparation



Thoroughly remove any dirt, grease and non-adhering old coatings.
Thoroughly sand any old coatings that are still intact.
Sand grey and weathered wood surfaces down to sound, bright wood.
Observe BFS Code of Practice No. 18 "Coatings on Wood and Wooden Working Materials in Outdoor Areas".
Pre-treat exterior wood that is to be protected from soft rot and/or blue stain with Aqua IG-15* or Aqua HSL-35* - not necessary for interior wood (*Use biocides safely. Always read the label and product information before use).

Directions



■ Conditions for use

Temperature of the material, air and substrate: from min. +15 °C to max. +25 °C.
The relative humidity must be 50-65%.

Stir well.

Apply using a brush or roller.

Apply a second coat once the first has dried.

See application examples for precise system configuration.

Seal opened containers well and use contents as soon as possible.

Tips on use



Check colour and compatibility with the substrate by applying a trial coat.

Before coating technically modified woods and wood-based materials, apply the coating to a trial surface and conduct a suitability test on the desired area of use.

Prior to full application, please apply a test coat to a sample area under practical conditions using the desired system, then test or examine the surface properties.

Do not use at temperatures below +5°C.

If the temperature is too low or the humidity too high, it will take longer for the material to reach the desired properties.

If the temperature is too high or the humidity too low, the material will dry more quickly. In such cases, we recommend adding Aqua OZA-90 Open Time Additive.

Carry out light intermediate sanding on particularly elegant surfaces prior to applying a finishing coat.

Observe the waiting times between coats.

Substances in oak may bleed, causing dark discolouration, when coated with water dilutable dispersion stains.

Examine sealants, sealing material and foreign materials for their coating compatibility.

Closed-pore varnishing must be carried out.

■ Drying

Practice values at +20 °C and 65% relative humidity.

Low temperatures and high humidity delay drying.

Application examples

Protected constructions:

Wood type oak, clear: Aqua HSL-35/m* farblos, 2x Aqua NEL-56/tm clear

Wood type spruce, clear: Aqua HSL-35/m* FT 38863, 2x Aqua NEL-56/tm clear

Wood type larch, clear: Aqua HSL-35/m* farblos, 2x Aqua NEL-56/tm clear

Direct exposure to weather:

Wood type oak, natural oak: Aqua HSL-35/m* FT 38854, 2x Aqua NEL-56/tm FT 38855

Wood type spruce, natural spruce: Aqua HSL-35/m* FT 38856, 2x Aqua NEL-56/tm FT 38857

Wood type larch, natural larch: Aqua HSL-35/m* FT 38858, 2x Aqua NEL-56/tm FT 38859

The colours are matched to the respective wood type, but can also be used on other wood types. The colour finish will then deviate from the colour sample.

Notes

Care and maintenance:

Wood is subjected to great climatic and environmental stresses when outdoors. The coat is susceptible to the processes of natural ageing, wear and decomposition. Decomposition takes place at different speeds, depending on the stress (weak, average, strong) placed on the wood building element. Weathering stages may vary according to the part or element affected. To give wood the longest and best possible protection it is advisable to examine surfaces every year. Any damage found should be addressed immediately after cleaning.

For cleaning and care, we recommend the care set for doors (2746).

Using the care balsam contained in the set can help to extend the intervals at which maintenance is required, while retaining the uniform, cloth matt surface.

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.

Tools / Cleaning



Acrylic brush, microfibre paint roller

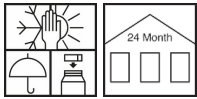
Clean tools with water or Aqua RK-898 Cleaning Concentrate immediately after use.

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.



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.

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.

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.