



Aqua NTL-420/05 Natural Effect Stair Varnish

High-solid, abrasion-resistant 1K varnish for natural wood effects

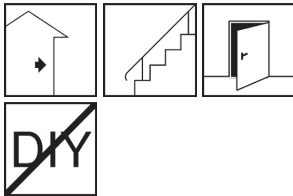


Colour	Availability		
	Quantity per pallet	96	22
	Size / Quantity	5 l	20 l
	Type of container	Tin bucket	Tin bucket
	Container code	05	20
	Art. no.		
clear	3221	■	■

Application rate 100 - 150 ml/m² per coat



Range of use



- Interior wood
- Especially suited to light and light stained woods: oak, maple, ash, birch, spruce, pine
- Primer & top coat
- Solid wood & veneers
- Wooden stairs
- Living room & bedroom furniture
- Interior finishing work: e.g. panels, borders, cladding & interior doors
- As a glass lacquer for satin effects (in combination with Aqua VGA-485)
- For use by professionals

Property profile



- For surfaces that look like bare wood
- Quick-drying
- Excellent build (after just 2 coats of varnish)
- Can also be used on vertical surfaces
- Very good defoaming even on vertical surfaces
- Resistant to abrasion and scratches
- No creaking
- Resistant to chemicals: DIN 68861, 1B (except for alcohol)
- Good resistance to a wide range of commercially available hand creams
- Slip resistance rating "R10" according to DIN 51130:2014
- Very low tendency to shine
- Fire resistant
- 2K ready: improvement of the resistance to chemicals, scratches and abrasion, and improvement of the adhesion on glass by adding 2% Aqua VGA-485

Characteristic data of the product

Binder	Acrylate/PU dispersion
Density (20 °C)	Approx. 1.03 g/cm ³
Odour	Characteristic, odourless once dry

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"**
- **Slip-resistant "R10" according to DIN 51130:2014-02**
- **Fire behaviour classification in accordance with DIN EN 13501-1 (C-s1, d0)**



Additional information

- [Care instructions for sealed floors and stairs](#)
- [Notes on the use of water-based paints in staircase construction](#)
- [Sustainability data sheet](#)

Possible system products

- [Aqua VGA-485 Cross-Linking Agent & Glass Lacquer Additive \(3256\)](#)
- [Aqua stains](#)

Preparation

■ **Substrate requirements**

The substrate must be clean, dry, free of dust, grease and loose substances, and prepared in the correct manner.

Wood moisture content: 8-12%

■ **Substrate preparation**

Wash off greasy or resin-rich woods/substrates with WV-891 or V-890. Use UN-894 indoors on the construction site. Ensure good ventilation for solvents.

Clean glass using V-893.

If colouring is desired, stain the substrate using Aqua KB-004, Aqua BB-007 or Aqua PB-006.

Directions



■ **Conditions for use**

Temperature of the material, air and substrate: from min. +18 °C to max. +25 °C.

Stir well.

Spray.

Flow cup gun: nozzle size: 2.0 - 2.5 mm; atomiser air pressure: 2.0 - 3.0 bar.

Airless spraying: nozzle size: 0.23 - 0.28 mm, material pressure: 80 - 120 bar.

Airmix spraying: nozzle size: 0.23 - 0.28 mm, material pressure: 80 - 100 bar, atomiser air pressure: 1.2 - 2 bar.

After drying and intermediate sanding (P 240 - 320), apply a second coat of the product.

The highly abrasion-resistant surface will reduce the service life of the abrasive used. It is recommended to use an abrasive with a high degree of hardness.

Repeat the process if necessary.

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

Tips on use



Set up trial areas to check the compatibility, adhesion and colour on the substrate.

This product is marketed as a "no creaking" product when used on staircases. This is only possible if the stairs have been constructed correctly and professionally (design, accuracy of fit, wood moisture content).

■ **Drying**

Dust-dry: after approx. 45 minutes

Can be overcoated: after approx. 2-3 hours

Can be stacked: after drying overnight

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

Low temperatures, poor ventilation and high humidity delay drying.

■ **Thinning**

Ready to use; dilute with max. 5% water if necessary.

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).

Observe the "Care instructions for sealed flooring and stairs".

Tools / Cleaning

Airless/airmix spraying equipment, flow cup gun

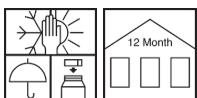


Clean tools with water or Aqua RK-898 Cleaning Concentrate immediately after use.

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 12 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.

Personal protective equipment

Respiratory protection with at least an A/P2 combination filter must be worn during spraying, together with safety goggles. Wear suitable protective gloves and clothing.



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/i): max. 140 g/l (2010). This product contains < 140 g/l VOC.

VOC	
Kat.	A/i
2010:	140g/l
max.:	140g/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.