



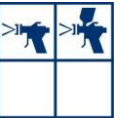
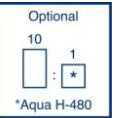




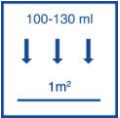




Technical Data Sheet
Art. No. 2372-73, 3819

Aqua TL-412 Stair Varnish

Single component, high quality, water based sealing varnish
381

							
Water based	For use indoors	For stairs	For interior doors	Airless/air-mix spraying Flow cup gun	Optional 10 : 1 *Aqua H-480 Mixing ratio of 2 components	Use the Patent Disperser	Drying time, worked over after 2 hours
							
Working temperature +15°-30°C	Working time 4 h	Application rate per coat 100-130 ml 1m ²	Shelf-life 12 Month	Store frost-free and cool, protected from moisture in closed containers			

Range of use

Aqua TL-412 Stair Varnish is an abrasion resistant varnish for stairs that is applied in a spraying or dipping procedure. It is used as a primer and a finishing coat. Coloured Aqua TL-412/30 can only be used for coloured decoration in a spraying procedure. Application by dipping or with a brush/roller is not recommended for coloured systems.

Property profile

Aqua TL - 412 - Stair Varnish is a single component, high quality sealing varnish for stairs that is extremely abrasion and scratch resistant. The varnish is environmentally correct, does not have

Characteristic data of the product

Density:	approx. 1.04 g/cm ³ at +20 °C
Viscosity:	approx. 100-120 s in a 4 mm cup at +20 °C
Binder:	PU acrylate copolymer
Packaging:	5 l and 20 l tin cans
Colours:	2372 Aqua TL-412/50 silk gloss 2373 Aqua TL-412/30 silk matt 3819 special colours, silk matt

any noxious solvent odour and is easy to apply.

- Corresponds to the requirements of DIN EN 71-3
- The varnish is resistant to practically all commercially available hand creams.
- Abrasion resistance has been successfully tested according to ASTM D406095.

Aqua TL-412/50 is only available in clear.

Aqua TL-412/30 is available in clear as well as in semi-transparent RAL and NCS shades of colour and can thus be coordinated to the special requirements of coloured stairs.

Through variations of transparent to opaque, nearly any decorating needs can be met.

Directions

In general:

The wood must be dry, clean and free of grease and wax. Wash off fat or resin-rich species of wood with V-890 Thinner (Art. No. 1955). Depending on the substrate, sanding can be carried out with 150-180 grit sandpaper. After dust has been removed, coating can be immediately carried out.

Aqua TL-412 Stair Varnish is packaged ready for use with airless or air-mix spraying equipment or a flow cup gun. When applied with a roller, the addition of 5 % water may be necessary.

Flow cup gun:

- Nozzle: 1.8 - 2 mm
- Air pressure: 2 - 3 bar

Airless equipment:

- Nozzle: 0.23 - 0.28 mm
- Material pressure: 80 - 120 bar

Air-mix equipment:

- Nozzle: 0.23 - 0.28 mm
- Material pressure: 80 - 100 bar
- Air pressure: 1.2 - 2.0 bar

Clear Aqua TL-412 Stair Varnish is also suitable for application in a dipping procedure. Because of the limited working time (pot-life), the use of a hardener is not possible.

Use with Aqua H-480 Hardener:

Aqua TL-412 Stair Varnish was designed as a single component varnish and does not need a hardener to achieve the best resistance.

To improve the sealing effect against substances in wood, 10 % Aqua H-480 Hardener can be added.

Coloured decoration:

System for a transparent look:

- 1 x Aqua TL-412/30 coloured + 10 % Aqua H-480 Hardener
- 2 x Aqua TL-412 clear Stair Varnish

System for a translucent look:

- 2 x Aqua TL-412/30 coloured + 10 % Aqua H-480 Hardener
- 1 x Aqua TL-412 clear Stair Varnish

System for an opaque look:

- 3 x Aqua TL-412/30 coloured

Notes

Colour and compatibility with the substrate should be checked with a trial coating, especially on steamed beech and commercial veneer. Coloured substances in oak may bleed when water dilutable dispersion varnishes are applied, causing dark stains.

To achieve the best varnishing results, the temperature of the varnish and air should not be less than 15 °C (best temperature range = 20-30 °C). Before coating, the object being coated should be brought to a temperature of approx. 20 °C.

Relative humidity should range between 45-55 % and wood moisture between 8-12 %.

If necessary, 10 % Aqua H-480 Hardener can be added to the primer coat.

Special notes for working with hardener:

- Aqua H-480 Hardener should always be stirred while adding.
- Use the Remmers Patent Dispenser for stirring.
- The pot-life of the mixture is max. 4 hours.

Tools, cleaning

Tools used must be suitable for water based varnishes. Clean tools/equipment immediately after use with water and a detergent. Stubborn soiling can be removed with Aqua RK 898 Cleaning Concentrate (Art. N. 3868). Dispose of the remains from cleaning properly.

Application rate

Spraying: 100-130 g/m² per coat

To seal stairs, 2-3 coats should be applied.

Drying

Dust dry: approx.. 45 min.
Touch dry: approx. 60-90 min.

Surfaces can be sanded and coated over after drying for at least 2 hours, depending on application rate (sand after each coat and intermediate drying with 220-280 grit sandpaper).

If Aqua H-480 Hardener is used, allow a drying time of at least 4 hours.

Elements can be stacked after drying overnight but at least 14 hours.

Floors: Thoroughly dry after 2-3 days.

Drying can be accelerated with a higher air exchange rate.

Practice values at 20 °C and 50% relative humidity. Lower temperatures and higher humidity as well as a lack of air exchange delay drying.

Thinning

If necessary with 2-5 % water

Shelf-life

At least 1 year in unopened, original containers stored dry and frost-free (15-25 °C).

VOC content

EU limit value for the product (Cat. A/i): 140 g/l (2010). This product contains max. 139 g/l VOC.

Safety data

Take the usual precautionary measures when working and for storage.

Product Code: M-KH01

Disposal

Dispose of product remains in compliance with valid regulations. Completely empty containers should be recycled.

Labelling

Water hazard class (WGK): 1
ADR: n.a.

The statements above are compiled from our field of production and according to the latest technological developments and application techniques.

Since application and working are beyond our control, no liability of the producer can be derived from the contents of this information sheet. Any statements made beyond the contents of this information must be confirmed in writing by the producer.

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