

VERNICE KRISTALL V.12

Two-component Polyurethane varnish for wooden details

NATURE AND USE

Varnish formulated for the treatment of wood parts for interiors, furniture and parquets.
Special use in the yachting market thanks to its good resistance to abrasion, shocks and marine environment.

TECHNICAL DATA



Type of binder:		Polyurethane
Specific gravity A+B:	Kg/l	1,05 ± 0,05 @ +20°C
Solids by Weight:	%	52 ± 3 % A+B
Solids by Volume:	%	42 ± 2 % A+B
Mixing ratio by weight:		50 parts of Base / 50 parts of Hardener
Mixing ratio by Volume:		1 part of Base / 1 part of Hardener
**Pot life a +20°C:		≥ 6 hours
Colour/appearance of the applied film:		Transparent

SUBSTRATE PREPARATION

New wood /brought back to new:

Seasoned and dry (R.H. ≤ 15%), cleaned, sandpapered (P 240-320) and dust free.
As Impregnating agent: apply **Vernice Kristall V.10** 50% Thinned
Undercoat: 2-3 coats of **Vernice Kristall V.10**
Finish (Intervals @ +20°C): 3 - 4 coats of **Vernice Kristall V.12**, recoat interval 3 – 5 hours between each coat (Spray application) or 8 – 16 hours (Brush/roller application).
After 16 - 24 hours, we suggest to sand between each coat with fine-grained abrasive paper P320.

Wood previously coated:

Wash with soft water. When the substrate is completely dry (R.H. ≤ 15%), check if the varnish and the solvent are compatible with the coats applied below (should any softening appear, remove the old coat of paint down to bare wood, then follow the same instructions given for the new wood), sand with abrasive paper grain P280 -320 and remove all dust.
Apply 2 – 3 coats of **Vernice Kristall V.12**, recoat interval 16 – 24 hours between each coat, sanding time by time with abrasive paper P 320.

PRODUCT PREPARATION

Stir separately the Base and the Hardener in their original cans.
Mix Base and Hardener in the right proportion stirring the mix obtained until a complete homogenization is reached. Let the product rest for 10 minutes before applying.

** The "POT LIFE" time of two components products (time within which it is possible to apply the paint mix of Base and Hardener), is exponentially dropped by the increase of product temperature.

Note: The use of a mix of paint (Base + Hardener) over the POT LIFE time is irreparably compromising all the properties of the coating film.**

APPLICATION DETAILS

Application method:	Conventional spray equipment Roller, Brush
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The content of the present technical data sheet is the most complete currently available, based on practical experience and given in good faith. Should any change be necessary, the present data sheet will be updated without prior notice. The applying conditions of use differ according to environmental conditions and subjective application factors outside the control of the Company. The user shall determine the suitability of the product for the intended use under his own risk and responsibility. No warranty is impressed or implied. The Company refuses all liability not directly related with defects of the product or consequent to deviations from written instructions.



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Company with quality management system UNI EN ISO 9001:2015 certified

Thinning:	10 - 25 % Spray application 5 - 20 % Roller or brush application Different thinning % can be necessary according to the absorption of the substrate and the thickness required
Thinner:	PUR11 Spray application SINT71 Brush, roller application
Cleaning:	PUR11
Hardening @ + 25°C:	Dust dry 1 - 2 hours Sandpapering after at least 16-24 hours Full cured 7 days
Recoat interval @ + 20°C:	3 - 5 hours Spray application 8 - 16 hours Brush / Roller application
Application Ambient Temperature:	Between +5°C and +35°C
Suggested Temperature of the product:	+20 ÷ +30°C
Substrate Temperature:	+5 / +40°C always at least +3/5°C above dew point
Relative Humidity:	≤ 80%
Suggested thickness:	Dry film thickness 125 - 150 µm (DFT) (reached in 3 - 4 coats)
Theoretical spreading rate:	sqm/l 8,4 per coat at a dry film thickness of 50 µm (DFT)

HANDLING STORAGE AND SAFETY PRECAUTIONS

Warning: All handling and/or use activities of the material and its components must strictly refer to the given indications in the Safety Data Sheet (Base and Hardener). The following advices are stated by common sense and in good faith, they are uncompleted and do not substitute the content of each specific safety data sheet of the product.

Handling: The material must be used only by professional and qualified applicators suitably trained. All the operations involving the use of the product, must be carried on in compliance with all the relevant National Health, Safety & Environmental standards and regulations.

Precautions: When the product is used in enclosed areas (rooms, containers, vessels, etc.) it is imperative to use adequate means providing the necessary air circulation, to be granted during the whole application and coating polymerization time, also to avoid conditions open to potential explosion danger.

All electrical installations must always be grounded. Where explosion hazards exist, the workmen should be required to use only non-ferrous tools and wear conductive non-sparking shoes and clothing. Explosion and flame-proof equipment too are required.

Storage and transport: Keep far from flames, sparks or heat sources. Do not leave exposed under direct solar action. Store under shelter in original unopened packaging, in cool, dry and ventilated areas, at temperatures between +5°C and +35°C.

Shelf life:

Base 12 months in the suggested storage conditions (original unopened packaging).

Hardener 6 months in the suggested storage conditions (original unopened packaging).

N.B.: **Product for professional use only**
and exclusively for the uses not regulated under CE Directive 2004/42/CE.

Refer to Material Safety Data Sheet



Access catalogues, data sheets and company presentations