

# Wood Protection Varnish

## Technical Data Sheet



### Product description

Penguin Wood Protection Varnish is a high-quality, alkyd resin-based, single-component wood protective varnish with high surface penetration, high resistance to insects and atmospheric damage. It is resistant to ultraviolet rays. Thanks to the special properties of the pigment inside, it paints the wood while preserving its natural appearance, veins and knots, thus giving a very effective natural look.

### Sphere of usage

Penguin Wood Protection Varnish is used as a decorative and protective coating on wooden surfaces that need to be protected, doors and windows, furniture and other wooden coverings, both indoors and outdoors.

### Film thickness and spreading rate

	Min	Max
Film thickness, dry ( $\mu\text{m}$ )	10	20
Film thickness, wet ( $\mu\text{m}$ )	22	45
Theoretical spreading rate ( $\text{m}^2/\text{lt}$ )	49	24

### Physical specifications

Color	Different Colours according the catalogue
Solid content (% by volume)	44 $\pm$ 2
Density (gr/ml)	0.89 $\pm$ 0.03
Viscosity (25°C) KU	50 $\pm$ 5
Gloss level	Gloss
Thinner	It can be diluted with Penguin Cellulosic Thinner up to 5-10%

### Surface preparation

The surface to be applied must be cleaned of dust, dirt and oil residues before painting. To obtain high visual effects, the wood should be cleaned with flint paper to its natural state. To ensure high penetration, it should be thinned with 5-10% Penguin Synthetic Thinner for the first coat. After the paint is well mixed, it is applied with a brush, roller or sprayer in two layers, waiting at least 8-10 hours between layers. During use, the temperature of the surface and the environment should be between +5°C and +30°C, and it should be applied to the surface in 2-3 layers.

### Application methods

**Spray** Appreciate

### Guiding data Airless spray

Pressure at nozzle 120 - 180 bar

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Nozzle size	0.38 - 0.48 mm
Spray angle	60 – 80°
Filter	Filter must be cleaned

### Guiding data Airspray

Pressure at nozzle	3-5 bar
Nozzle size	1.2 – 1.5 mm

**Brush** Appreciate. Care must be taken into account to achieve the specified dry film thickness.

**Roller** Appreciate. Care must be taken into account to achieve the specified dry film thickness.

### Drying duration

The drying time mainly depends on the weather conditions, the thickness of the applied layer and the number of applied layers. The table below shows the approximate drying time of the paint depending on the air temperature.

- The area to be painted should be well ventilated (Open air or free air circulation)
- The paint should be applied at the recommended thickness
- The thickness should be applied taking into account the number of layers to be applied.
- In normal weather conditions, it dries in 3-4 hours as a top coat, and in 24 hours as a final coat. An interval of 8-10 hours should be expected for drawing the 2nd and 3rd layers.

### Storage conditions

The paint should be stored in dry, cool, well-ventilated warehouses without direct sunlight, between +5°C and +35°C without opening the lid. It should be mixed well before use. Shelf life is 3 years in unopened packaging.

### Packing types

It is produced in 0.75 lt, 2.5 lt and 12 kg metal containers.

### The implementing operator

This product is intended for professional use. The applicator or operator must be experienced and knowledgeable about the product. The person in question shall mix and apply the paint according to the specification. Employees participating in the application must be provided with safety equipment.

### Product color

It can be painted in any color with water-based pastes. There may be slight variations in product color from batch to batch.

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### Attention

The above information is based on results obtained from laboratory tests and field applications. In applications outside the company's control, the company is solely responsible for the quality of the paint. It is not responsible for problems that may arise from implementation and application errors.

### Health and safety regulations

Follow the instructions on the container. Store in warehouses where there is no possibility of high temperatures and sparks. Use in well-ventilated areas. In case of contact with the skin during use, it should be washed with a suitable solvent and then with soap and water. In case of eye contact, wash with plenty of water and seek medical attention if necessary.

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S 2	: Keep out of reach of children.
S 3 / 7	: Keep the container in a cool place with the mouth closed/
S 24 / 25	: Avoid contact with eyes and skin.
S 29	: Do not dispose of in drains.
S 46	: In case of ingestion, consult a doctor immediately, show the container or label.

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**Note:** "CMT GROUP" LLC reserves the right to change the information on the technical data page without notice.

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