

## **TECHNICAL DATASHEET**

# **POLYURETHANE VARNISH**

### **PRODUCT DESCRIPTION**

A high performance one pack polyurethane clear varnish providing a protective transparent and extremely tough finish with exceptional yellowing resistance. It enhances the wood's natural beauty and grain.

### **PRODUCT BENEFITS**

- 1- Water Clear coating
- 2- Good UV resistance
- 3- Excellent yellowing resistance
- 4- Excellent scratching resistance
- 5- High durability
- 6- Excellent gloss retention.
- 7- Good chemical and mechanical resistance
- 8- Great hardness

### **RECOMMENDED USES**

Interior and exterior wood surfaces.

Suitable for surfaces where high resistance, durability and non-yellowing properties are required.

### **SURFACE PREPARATION**

Surfaces should be solid, clean and dry, free from oil, grease, salt, dust and other contaminants. All deteriorated previous coatings should be removed.

Holes and cracks in wood should be filled with suitable filler.

### **PHYSICAL AND CHEMICAL PROPERTIES**

## Physical Properties

|   |                               |
|---|-------------------------------|
| Technology                                | Polyurethane                  |
| Physical State                            | Liquid                        |
| Appearance                                | Water clear                   |
| Finish                                    | Eggshell, Gloss               |
| Color                                     | Clear<br>Tinted upon request  |
| Specific Gravity, ISO 2811                | 1 ±0.05 g/cm <sup>3</sup>     |
| Viscosity, ISO 2884                       | 90 sec                        |
| Drying Time, ASTM D 5895                  | 35 min to touch.              |
| Recoat Time                               | After 2- 3 hours              |
| Coverage                                  | 12- 15 m <sup>2</sup> / liter |
| Sag Resistance, ASTM D 3730               | Excellent                     |
| Leveling, ASTM D 2801                     | Excellent                     |
| Scratching Resistance, ASTM D3002, D 3359 | Excellent                     |
| Hardness                                  | Excellent                     |

## Chemical Properties

|                    |         |
|--------------------|---------|
| % Solids by Weight | 72 ±2%  |
| % Solids by Volume | 72 ± 2% |

## PRIMING/ THINNING/ APPLYING

If a color is required, it can be stained..

Thin with PU thinner to reach the desired viscosity depending on the application.

Apply one coat on the substrate. Recoat it if necessary after 1-2 hours.  
Clean tools and equipment with PU Thinner immediately after use.

## CAUTION

Flammable liquid. Keep away from flame or high heat.  
Avoid inhalation of spray mist and arrange for adequate spraying precautions especially in closed areas.

## PACKING

In cylindrical tin containers of the following capacities:

- 1 US Quart = 0.95 L.
- 1 US gallon = 3.78 L.
- 1 Pail (5 U.S.G.) = 20 L

Each container is supplied with its appropriate hardener.

## STORAGE

Avoid frost & excessive heat.

## SHELF LIFE

2 years under normal storage conditions in unopened containers.

The technical information contained in this Technical Data Sheet is to be understood as advice only and not binding in any respect.

All details about working with our products should be adapted to prevailing local conditions and materials used.