

## **TECHNICAL DATASHEET**

# **ALKYD VARNISH**

### **PRODUCT DESCRIPTION**

A tough durable transparent finish providing high protection to substrates subject to wear, sunlight and weathering conditions. Its high performance formulation makes it ideal for outdoor applications providing long-lasting protection.

### **PRODUCT BENEFITS**

- 1- High resistance to abrasion and scratches
- 2- High resistance to blistering and flaking
- 3- Non-yellowing
- 4- High resistance to stains and detergent solutions
- 5- Weathering resistance
- 6- Excellent leveling properties
- 7- Excellent anti-blocking properties.

### **RECOMMENDED USES**

It is effective on surfaces such as structural steel, beams, trusses, metal doors, metal sash, metal trim, lockers, stairs and all types of machinery.

Interior and exterior wood work such as furniture, wood paneling, cabinets, cupboards, doors, windows, hospital furniture, kitchen fixtures, etc...

### **SURFACE PREPARATION**

Surfaces should be solid, clean and dry, free from oil, grease, salt, dust and other contaminants.

- 1- Alkaline and acid surfaces should be cleaned and neutralized.
- 2- Deteriorated previous coatings, weak and blistered paints or chalky substances should be removed by scrapers, paint removers or flame spraying.
- 3- Non-disintegrated paints or glossy surfaces of previous coatings should be roughened slightly with sand paper to ensure good adhesion.

## PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Viscous Liquid
Appearance	Clear Gloss, Semi-Gloss, Flat
Temperature	25 <sup>0</sup> C
Relative Humidity	60%
Wet Film Thickness	100 µm
Dry Film Thickness	50 µm
Specific Gravity, ISO 2811	0.95 ± 0.05 g/cm <sup>3</sup>
Viscosity, ISO 2884	4-9 poises
Drying Time, ASTM D5894	2-3 hours
Recoat Time	4-6 hours
Spreading rate	50-70 m <sup>2</sup> /U. S Gallon
Sag Resistance, ASTM D3730	Excellent
Leveling	Excellent
Abrasion Resistance	Excellent
Water Resistance	Excellent
Scratching Resistance	Excellent

### Chemical Properties

Solids by Weight	52 ± 2%
Solids by Volume	54 ± 2%

## PRIMING / THINNING/ APPLYING

Smooth & Take off dust from wooden surface  
Surface must be clean and dry, free from oil, grease, salt, dirt, and other contaminants.  
Previous coatings or varnishes should be roughened with sand paper to ensure good adhesion. Deteriorated paint should be removed.

- 1- Masonry:** prime with HAPPY WALL Primer
- 2- Metal:** Prime with Metal Primer.
- 3- Wood:** For bare wood, sand slightly.

### **Thinning**

Dilute with white spirit, the quantity required depends on the absorption of the surface and the method of application.

-For brush application: 5%

-For spray application: about 15%

-On highly absorbent substrates: up to 50%.

### **Application Tools**

Brush, roller or spray-gun.

### **PACKING**

In cylindrical tin containers of the following capacities:

- 1 Quart = 0.946 L.
- 1 US gallon = 3.78 L.
- 1 Pail (5 U.S.G.) = 20L

### **STORAGE**

Avoid frost & excessive heat.

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.