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## PRODUCT DATA SHEET



# WOOD KRAFT 1160 LINE INTERIOR/EXTERIOR SPAR VARNISH WATERBORNE ACRYLIC-POLYURETHANE

### DESCRIPTION

Wood Kraft Waterborne Acrylic-Polyurethane Spar Varnishes are clear, non-yellowing coatings formulated to produce hard, durable finishes on interior or exterior wood. These polyurethane varnishes have superior UV-A and UV-B absorption to protect the surface from the harmful rays of the sun. Wood Kraft Spar Varnishes are low odor and form durable finishes that feature excellent abrasion resistance and protection against water, alcohol, and most household chemicals. This product dries quickly allowing multiple coats to be applied in the same day. These polyurethanes are self-sealing and sandable: therefore, no primer/sealer is necessary.

### TYPICAL USE

These Spar varnishes can be used on exterior wood surfaces such as doors, patio furniture, wood railings, and table tops. These varnishes are also recommended on properly prepared interior wood surfaces such as paneling, and furniture, doors, cabinets, woodwork, and window sills. These products can also be used as a clear protective coating for faux finishing or previously painted surfaces. Not recommended for use over lacquer sealers, unsanded sealers, shellacs, silicones, waxes, or stearate sealers.

### SURFACE PREPARATION

The surface to be varnished should be dry and free of any dirt, grease, wax, fingerprints, pencil marks or other foreign contaminants. Do not apply over sealers containing waxes, stearate (sanding sealers), or waxes. **New Wood:** New wood must be sanded with the grain using a 100-120 grit sandpaper prior to coating. Remove all dust with a tack cloth or by vacuuming prior to staining or coating. If desired, wood should be filled with a quality wood filler and sanded with the grain prior to staining or coating. Do not use steel wool to sand since this may cause rust stains to appear in the waterborne topcoat. Stain with Wood Kraft Penetrating Wiping Stain and allow overnight to dry before topcoating. Staining may raise the wood grain. Do not

sand wood surfaces with only stain on them. Sand with the wood grain after the first coat of varnish is applied to eliminate this texture. Lightly sand between coats with a 180 or finer sandpaper to eliminate grit and ensure proper adhesion of the varnish to itself. If the varnish has dried for 8 hours or more, sanding must be done to ensure adequate adhesion. Three coats of varnish are recommended on all surfaces.

**Old Finishes:** Remove all old finishes that are in poor condition, or any finishes that contain waxes or stearate. Remove all wax with a commercial wax remover prior to chemically stripping or power sanding. If all of the wax is not removed, poor drying and non-uniform appearance will result. Wood surfaces that require complete removal will then need to be treated as a new surface. Previously varnished surfaces should be well sanded to cut the hard-glazed finish and permit proper adhesion to the new varnish. Two coats of varnish are recommended on all previously finished surfaces. If you have any questions about proper surface preparation check your surface preparation guide or consult your Farrell-Calhoun representative.

### COLOR

Clear

### SPECIFICATIONS

**Finish:** 1160 Gloss @20° 55 – 65, @60° 80 - 90

1161 Semi-Gloss @60° 45 - 55

1162 Satin @60° 25 – 35, @85° 55 – 65

**Solids:** 1160 Gloss 33.0% by weight/30.0% by vol. ±2%

1161 SG 33.5% by weight/30.3% by volume ±2%

1162 Satin 33.5% by weight/30.3% by volume ±2%

**Weight/Gallon:** 8.7+/-0.1 Pounds

**Flash Point:** >150°F

### ENVIRONMENTAL

**VOC:** 1160 Gloss 145 grams per liter; 1.21 lb/gal

1161 Semi-Gloss 147 grams per liter; 1.23 lb/gal

1162 Satin 146 grams per liter; 1.22 lb/gal

LEED v3.0 Compliant  
SCAQMD Rule 1113 (2008) Compliant  
OTC (2003) Compliant

### **THEORETICAL APPLICATION**

485 square feet per gallon at 1.0 mil dry film thickness. Coverage figures do not include loss of material while mixing, porosity or irregularity of the surface to be painted, or application methods.

### **RECOMMENDED SPREAD RATE**

Apply at 500-450 square feet per gallon to achieve a WFT of 4.0 Mils and a DFT of 1.2 Mil per coat. Apply three coats for best performance.

### **DRY TIME**

At 77°F and 50% relative humidity: One hour to dust, dirt and bug free, two hours to tack free, and three hours to recoat. Lightly sand and clean between coats.

### **APPLICATION PRECAUTIONS**

Do not paint late in the day when dew or condensation is likely to form. Do not paint if the air temperature or substrate temperature is below 45°F or above 90°F. **Do not apply unless surface is completely dry.**

**All wood surfaces should be considered “dry” for a minimum of 24 hours prior to application.** Finishing wet surfaces may cause the varnish to become blotchy, discolored, or cracked. All varnished items should not be handled for a minimum of 24 hours. Wood-Kraft Waterborne Polyurethanes can be applied over well cured stains and penetrating oils. However, make sure that the stain has been wiped off the surface completely, and that the stain has dried thoroughly. This may take as much as five days or more. Test a small area before completing an entire project. Wood Kraft Waterborne acrylic polyurethanes **do not adhere to zinc stearate** containing films or to acrylic sealers. This product is not recommended over any newly cured alkyd products as it can yellow the previous coat. This product is not recommended over any newly cured concrete or masonry of any kind.

### **APPLICATION EQUIPMENT**

**DO NOT SHAKE VARNISHES.** Stir varnish well prior to and during use. Do not generate foam. **Do not use** zinc stearate sanding sealers.

**Brush:** Use a quality synthetic bristle brush or painting pad. Apply along wood grain in thin, even coats. Do

not over brush product; avoid brushing into partially dried area and keep a wet edge at all times.

**Roller:** Use a ¼” nap synthetic or lamb’s wool roller cover in thin even coats. Avoid dry, rapid rolling since this will generate foam. Avoid roller application on vertical surfaces. Do not over roll product; avoid rolling into partially dried areas and keep a wet edge.

**Spray, Conventional:** Thin if needed with water.

**Spray, Airless:** Pressure -1,500 to 2000 PSI

Tip - .011” to .013”

### **THINNING**

Thinning is not recommended. If desired, use water.

### **CLEAN-UP**

Warm, soapy water

### **PACKAGING**

5 Gallon Pails, 1 Gallon Cans, and 1 Quart Cans

### **STORAGE TEMPERATURE**

Minimum 35°F Maximum 90°F

### **SHELF LIFE**

12 months at recommended storage temperature when stored in tightly sealed containers.

*The technical data contained in this data sheet is accurate to the best of our knowledge. No warranty is expressed or implied since the method of application and its intended use is beyond our control.*