



# TECHNICAL DATA

## JAPAN COLORS

### DESCRIPTION:

**Japan Colors** are finely ground, **lead free**, flat, quick drying, semi-paste colors. This traditional product has a wide range of graphic and professional artist uses. They are ideal toners for flat paints and may be added to oil based gloss paints to create a semi-gloss finish. Also used for lettering, striping and stenciling. If using on exterior surfaces consult our technical department for recommendations on protective overcoats.

### SURFACE PREPARATION:

All surfaces must be clean and free from loose or peeling paint, grease, oil, dirt, rust, mill scale and other contaminants. If this procedure is not observed, the drying and adhesion of any coating will be adversely affected.

**Previously Painted Surfaces:** Dull glossy areas by light sanding to enhance adhesion. Prime with Ronan Sticktite White Primer or **Prime-All**.

**Wood Surfaces:** Clean surface to eliminate oil, grease and other contaminants. Prime with Sticktite White Primer or **Prime-All**.

**Metal Surfaces:** Remove loose rust and scale with wire brush, steel wool and/or sandpaper. All oil, grease and contamination must be removed. Acidic or alkaline surfaces should be neutralized. Prime with Ronan Galvanized Primer, Rustite Red Primer, Zinc Primer (chromate free), Universal Primer, Deluxe Corrosion Resistant Primer or **Prime Lock DTM** Primer.

**Galvanized Metal and Aluminum:** Surface should be wiped with xylene or ketone to remove oil and grease. A mild solution of phosphoric acid should be used for etching to assure a good bond. If acids are not available slight surface sanding will be beneficial. Prime with Ronan Universal Primer or **Prime Lock DTM**. For more complete information on preparation and priming galvanized metal and aluminum refer to Ronan Substrate Sheet #SSGA.

**Concrete:** A white powdery deposit (efflorescence), often found on concrete and masonry surfaces should be completely removed with a stiff wire brush. New concrete should set 4 to 6 weeks before coating. All concrete surfaces should be etched with a solution of 4 parts water to 1 part muriatic acid. Let solution soak on surface for 15 minutes before rinsing with clear water. Allow 48 hours to dry before painting. Prime with Ronan **Prime-All**.

**MDO Plywood:** Clean surface to eliminate oil, grease and other contaminants. Prime face with **Prime-All** or **MDO Primer**. All edges should be puttied and then primed with two coats of Ronan **Prime-All** or **MDO Primer**. For more complete information on preparation and priming MDO board refer to Ronan Substrate Sheet #SSMDO.

**Masonite:** Clean surface to eliminate oil, grease and other contaminants. Prime with Ronan Masonite Primer or **Prime-All**.

### APPLICATION:

Stir thoroughly. May be brushed, rolled or sprayed. When top coating Japan Color with a clear finish test first to determine if any lifting or discoloration will occur.

### GLAZING:

For making glazes mix with **Japan Alkyd Glazing Liquid**. Refer to **Alkyd Glazing Liquid** technical data sheet for more information.

### THINNING:

These colors are in semi-paste form. Observe all local VOC laws. Whether this product can be thinned depends on the end use process and the local VOC laws. If thinning is necessary use mineral spirits. Excessive thinning will cause pigments to separate. When making stains, add 5 to 10% Sign Finishing Clear to Japan/solvent mixture.

### TINTING:

All Ronan Japan Colors may be intermixed for shades, tints and tones. May be tinted with up to 4 ounces per gallon of most universal colors.

<b>CLEAN UP:</b>	Mineral Spirits, VMP Naphtha, Xylene.
<b>DRY TIME:</b>	@ 70° F; 50% Relative Humidity: Dries to touch - 1 hour; to handle: 2 hours; to recoat - 8 hours. Full cure - 24 hours. May take longer to dry under humid conditions.
<b>APPLICATION TEMPERATURE:</b>	Minimum 50° F. - Maximum 95° F. (Ideal Temp. 55° F. - 85° F.) At all temperatures, adequate ventilation must be supplied for the protection of the applicator because of the volatility of the solvents in the mixture.
<b>APPLICATION HUMIDITY:</b>	Maximum 90%. (Ideal Humidity 50 - 85%)
<b>COLORS:</b>	33 colors available.
<b>FINISH:</b>	Flat.
<b>WEIGHT PER GALLON:</b>	9.8 - 13.8 lbs. (approximate).
<b>SOLIDS %:</b>	69 - 84 (Weight).
<b>VISCOSITY:</b>	@ 75° F ( 24° C ) 90 - 95 KU.
<b>FLASH POINT:</b>	105° F (27° C) T.C.C.
<b>PACKAGING:</b>	4 gallons per case. 6 quarts per case. 24 half-pints per case.
<b>STORAGE TEMPERATURE:</b>	50° F minimum to 95° F maximum.
<b>SHELF LIFE:</b>	2 Years.
<b>VOC INFO:</b>	Maximum VOC is 450 grams per liter.
<b>CAUTIONS:</b>	Read material safety data sheet before handling or using this product.

**DISCLAIMER:** The technical information here in is based on T.J. Ronan Paint Corp. research and experience and is believed to be reliable, but such information does not constitute a warranty. Since T. J. Ronan Paint Corp. has no control over the conditions under which the product is transported, stored, handled, used or applied, **buyers must determine for themselves, by preliminary test or otherwise, the suitability of the product for their purposes.** Factors beyond our control prevent us from assuming damage to property or person, even when this product is applied according to directions. **In no event shall our liability exceed the purchase price of this product.**

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