

The Colours of Corrosion Protection

TECHNICAL DATA SHEET

OIL FREE SATURATED POLYESTER RESIN

Primer Coating Resin

KP - 4055

Type: Oil free saturated polyester resin, Suitable for Primer.

Form of delivery: 60 % in solvent C-9/ Butyl glycol (80:20)

General Information:

KP – 4055 is linear oil free polyester resin developed for use in coil coating, sheet metal decorating and general industrial applications.

Applications : Resin used as a raw material for paint, coatings, inks, adhesives.

Features

Excellent flexibility with good exterior durability, Good light fastness and humidity resistance
Good hardness with stain resistance.

Product Specification:

1. Appearance	: Clear transparent viscous liquid
2. Colour	: Pale yellow to water white
3. Acid value (mg.KOH/gm.)	: 5 Max..
4. Non volatile matter (1 hr @ 150 °C)	: 60 ± 2 %
5. Viscosity @25 °C (4/20 RPM) B.Field	: 2000-3000 Cps
6. Hydroxyl value	: 70 –80 mg KOH/g
7. Specific gravity	: 1.08 ± 0.02
8. Tg	: 26.83°C



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KP-4055 is usually cross linked with HMM Melamine resins. The addition of HMMM is usually between 15 – 30% on solid basis. Incorporation of acid catalyst e.g. Para toluene sulphonic acid promotes the curing. 1% to 5% of acid catalyst on Melamine solids is recommended.

The product has excellent pigment wetting properties and high yield pigment concentrates can be formulated.

CURING SCHEDULES:

Coil Coating finishes based on KP-4055 can be cured using a peak metal temperature of 232°C - 240°C. For Metal Decorating, a cure schedule of 10 minutes at 160 -200 °C depending on requirements is recommended; cure response will increase with temperature, but flexibility may be reduced with high levels of catalyst. For General Industrial applications a baking schedule of 30 minutes at 150°C will be suitable.	Metal Decorating: 80: 20 KP-4055 Curing of 10 minutes at 160 - 200 is recommended. Aromatic hydrocarbons are recommended.
	General Industrial enamels: 70 : 30 to 80 : 20 on solids with hexamethoxymethyl melamine resin or partly methylated melamine with 2% PTSA catalyst on amino levels. Baking of 30 minutes at 150 C is recommended. Blend of aromatic hydrocarbon/ alcohol are suggested

STORAGE:

Keep away from heat source & direct sunlight. Avoid temp.more than 30 degree C.

PACKING;

210 kg. Net in new MS drums

Data given above are based on laboratory tests; the suitability of the product has to be tested in each case. KPPL retains the right to change the qualifications at any time without any announcement and notification. It is the user's responsibility to conduct all necessary tests to confirm the suitability of any product or system for their intended use. No guarantee of result is extended since conditions of use are beyond our control.

