



ETERKYD 1108-M-80-2

ETERNAL CHEMICAL CO., LTD. *Klg*

COATING RESINS DIVISION

Resin for Architectural Finishes

- Description :** ETERKYD 1108-M-80-2 is a long oil pentaerythritol esterified alkyd resin modified with soybean oil used for decorative enamels, undercoats, primers, and industrial paints.
- Performance :** Very good drying and through hardening.
Produce film with good gloss and color retention.
Exhibit good exterior and interior durability.
- Suggested Uses :** Structural steel primers and top coats.
Architectural semi-glosses and enamels.
Porch and deck finishes.
Exterior trim paints.

SPECIFICATIONS

Percent Solids ($\pm 1\%$)	80
Oil type	Soybean oil
Oil length, %	58
PA Content, %	30
Appearance	Clear & Clean
Viscosity, (G-H @ 25°C)	Z4 - Z5 (70% solid)
Viscosity, (Stokes, @ 25°C)	50 - 60 (70% solid)
Color (Gardner)	7 Max.
Acid Value (mg KOH/g. solid)	10 Max.
Solvent	Mineral Spirits

TYPICAL PERFORMANCE

(For guidance only)

Zinc Oxide Compatibility:

Pass TT-R-266c zinc oxide compatibility test, less than 15 KV increase in 5 days.

Compatibility:

"Q" Linseed	All ratios
Nitrocellulose	Incompatible
Chlorinated rubber	Limited
Pigments	Very good

Solvent Tolerance:

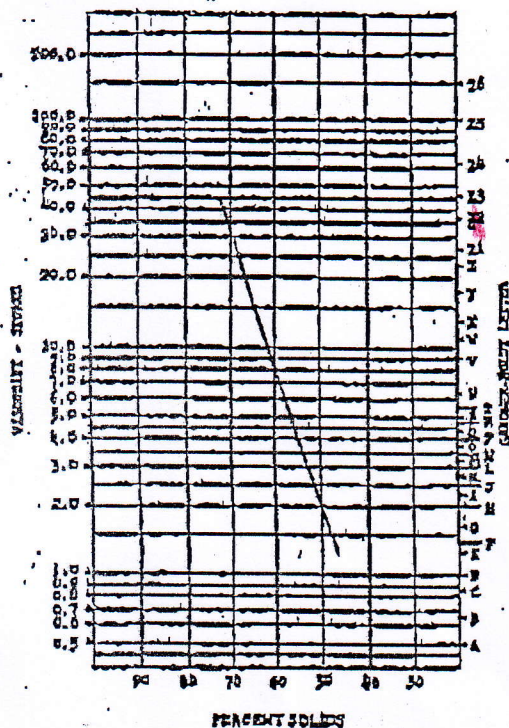
Aromatic Solvents	Infinite
Mineral Spirits	Infinite

Dried Recommendations:

(Metal based on vehicle solids)

Air dry	0.02 - 0.05% Co
	0.00 - 0.05% Ca
	0.20 - 0.50% Pb

Viscosity-Dilution Characteristics in Mineral Spirit



Drying Data **

Set to touch	1.0 - 1.5 hrs
Dry hard	4.0 - 5.0 hrs

Dryer Composition	0.50% Pb
	0.04% Co

(Metal content based on vehicle)

Film thickness 3 mil wet film

Drying condition at 25 ± 2 °C

@ $65 \pm 5\%$

relative humidity

SUGGESTED FORMULATION

Raw Materials

	<u>PBW</u>
ETERKYD 1108-M-80-2	22.00 51
Titanium Dioxide (Rutile)	51.50 0
Zinc Oxide	0.54
Calcium Carbonate	9.33
Zinc Stearate	0.48
Betone 34 (10%)	1.78
Mineral Spirit	14.40 37

----- Ball miller dispersion -----

PbNp (32%)	0.24
CoNp (12%)	0.06
CaNp (5%)	0.15
Antisking agent	0.10

100.58

Film Properties

Substrate : sanded tinplate

Test condition : at 25 ± 2 °C, $65 \pm 5\%$ R&H

Film thickness : 3.08 mil (wet Film)

Set to touch	20 mins.
Dry hard	3 hr 30 mins.
Gloss (60°)	20
Bending test (3 m/m)	pass
Pencil Hardness (Tombow)	HB
Drawing test (1000g)	pass
Erichsen (3mm)	pass
(5mm)	pass
Water Resistance (18 hrs)	pass
Gasoline Resistance (1 hr)	pass
Adhesion (100/100)	pass