



## Technical Data Sheet

### PAL - 6108 X 60 ACRYLATED ALKYD RESIN

**PAL- 6108 X 60** acrylated modified alkyd resin. It is developed for fast drying exterior / interior durable air drying coatings. It could be used as, hydroxyl functional base resin, in two pack urethane systems. Similarly, it could be cross linked with MF resin or blocked isocyanates, at higher temperatures, in one pack stoving systems.

#### Features

- Cost effective versatile resin
- Very good compatibility with pure acrylic resins, chlorinated rubber resins, polyurethane resins
- Quick drying with very good acid & alkali resistance
- Very good exterior durability

#### Applications

- Excellent substitute for chlorinated rubber coatings.
- Quick drying coatings with very good exterior durability for exterior structures such as pipelines, tanks etc. The durability could be boosted by imparting few parts of pure acrylic resin in paint formulations.
- Paint formulator can develop excellent coatings for Ship side paints, container coatings, low bake primers & Top coat for chassis.
- Hydroxy terminated base resin for two pack polyurethane application for exterior coatings.

#### Physical Properties

Sr. No.	Property	Unit	Specification
i)	Appearance	Visual	Light Yellow Viscous Liquid
ii)	Colour (Gardner Scale)	Gardner	10 Max
iii)	Viscosity in 40 % xylene @ 30° C	Sec	25 - 45
iv)	Specific Gravity @25° C	gm / cm <sup>3</sup>	0.96 - 0.98
v)	Flash Point (Closed Cup )	°C / °F	28 / 82
vi)	N.V.M [1 hr @120° C]	%	60 ± 2
vii)	Hydroxyl Value (As such)	mg KOH / g	24 - 30
viii)	Hydroxy Equivalent Weight	g / eq.	2100

#### Curing Properties

1. Air Drying Systems	
Recommended Solvent	Xylene, C IX, Butanol
Recommended Driers	Ca, Co & Zr
Surface Dry	10 Mins
Tack Free	45 Mins
Hard dry	Over Night
2. Two Pack Urethane Systems	
Recommended OH Equivalent for Two Pack Urethane Systems	2100



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### Starting Formulations Based on PAL - 6108 X 60 ( Acrylated Resin )

#### I ) Quick Drying Enamel

Sr. No	Raw Material	Percentage
i)	Titanium Dioxide	20.00
ii)	Dispers BYK -110	0.20
iii)	PAL - 6108 X 60	60.00
iv)	CLP – 65%	2.00
v)	BYK - 410	0.60
vi)	Calcium Drier	0.40
vii)	Cobalt Drier	0.60
viii)	Zirconium Drier	0.60
xi)	BYK - 310	0.20
x)	Xylene	5.40
xi)	C - IX	8.00
xii)	Butanol	2.00
<b>Total</b>		<b>100.00</b>

#### Paint Properties

<b>Specific Gravity</b>	: 1.10 ± 0.04 kg / ltr
<b>Viscosity</b>	: 100 ± 20 Sec in B4 cup at30° C
<b>Drying Time</b>	: SD - 20 Minutes TD-120 ± 30 Minutes at ambient temperature
<b>S.V.R</b>	: 35

#### II) Starting Formulation of Polyurethane Paint based on PAL-6108 x 60 & Aliphatic Isocyanate

Base composition		
Sr.No	Raw Material	Percentage
1	Titanium Rutile	20.00
2	Dispersing agent	0.20
3	UV – Stabilizer	0.20
4	PAL-6108 x 60	48.00
5	Slip agent	0.20
6	Thixotropic agent 10 %	3.00
7	Xylene	2.40
8	Butyl acetate	4.00
9	Solvent C-IX	8.00
10	Ethyl cellosolve acetate	4.00



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Hardener composition		
11	Aliphatic Isocynate x 75 %	4.25
12	Butyl acetate	5.75
	<b>Total</b>	<b>100.00</b>

### Paint Properties

Specific Gravity	:-	1.10 ± 0.04 kg / ltr
Viscosity	:-	50 ± 20 Sec in B4 cupat30°C
Drying Time	:-	SD - 15 ± 5 Minutes TD- 120 ± 30 Minutes
Gloss at 60 deg.	:-	72--76
S.V.R.	:-	35
Mixing ratio	:-	Base : Hardener 9 part : 1 Part

### Handling & Storage

Handling: Avoid use of electric band heater or application of direct flame to container. It can cause explosion & fire.

Storage: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

### Disclaimer

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