

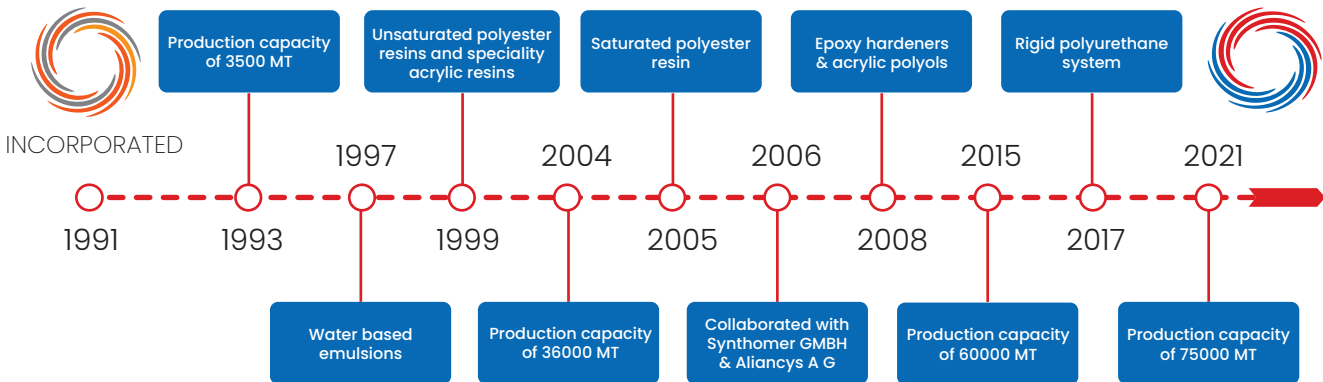
**Resins  
and  
Polymers  
for Paints  
and  
Coatings**



Hitech Industries is a leading manufacturer of solvent based and water based polymeric resins for nearly 30 years. Our resins are widely used for decorative, industrial, auto refinish, marine, can and coil coatings, adhesives, the construction chemicals and the composite industry.

Backed by state-of-the-art research & development facility, Hitech has built up a total operational capacity of 75,000 MT over a period of time.

Hitech has earned “Preferred Supplier” status and a global reputation for quality and reliability with its multinational customers.



With a diversified product portfolio and the dynamic Jebel Ali Port (Dubai) facility next door. Hitech caters to 60 countries worldwide. Hitech is the first resin manufacturing company to produce speciality resins in the region for high-end applications.

Synthomer GMBH & Aliancys AG (Formerly DSM Composite Resin) have been our partners in progress for nearly 15 years.







**ALKYD**  
RESINS



**SPECIALITY**  
ALKYDS



**SPECIALITY**  
RESINS



**UNSATURATED**  
POLYESTER RESINS



**SATURATED**  
POLYESTER RESINS



**CURING**  
AGENTS



**WATER BASED**  
EMULSIONS

### Long Oil and Medium Oil Alkyds :

- High gloss look and gloss retention
- Good drying
- Decorative enamel for interior and exterior applications
- High viscosity resin for good pigment wetting



# Long Oil Alkyds

Products	% NVM (Volatile/solvent)	Acid value (mg KOH/gm)	Color Gardner (@% Solids)	Viscosity B4 F/C @30°C (@% Solids)	Viscosity Gardner @25°C (as such)	Oil Type	%Oil (approx)	%PA (approx)	Description / Uses
S 10001	95.0 min	15.0 max	5.0 max (as such)	20.0-25.0 Sec (70.0%)	U - Y	Fatty acid	60.0	25.0	Decorative enamel for interior and exterior applications. High solid resin for good pigment wetting.
S 10951WS	95.0+/- 1.0 (WS)	10.0 max	4.0 max (50.0%)	180.0- 220.0 Sec (50.0%)	-	Veg. oil / Fatty acid	60.0	25.0	High solids for decorative enamel for interior and exterior applications.
S 10801WS	80.0+/- 1.0 (WS)	12.0 max	4.0 max (50.0%)	140.0-160.0 Sec (50.0%)	Z7 +/-	Veg. oil / Fatty acid	60.0	25.0	Good color and gloss retention, good drying, decorative enamel for interior and exterior applications. High viscosity resin for good pigment wetting.
S 10701WS	70.0+/- 1.0 (WS)	10.0 max	4.0 max (50.0%)	130.0-150.0 Sec (50.0%)	Z6 +/-	Veg. oil / Fatty acid	60.0	25.0	Good color and gloss retention, good drying. Decorative enamel for interior and exterior applications.
S 10701HVWS	70.0+/- 1.0 (WS)	10.0 max	4.0 max (50.0%)	100.0-130.0 Sec (45.0%)	Z7	Veg. oil / Fatty acid	60.0	25.0	High viscosity and rest of the properties as per S 10701WS.
S 10702WS	70.0+/- 1.0 (WS)	10.0 max	4.0 max (50.0%)	180.0- 220.0 Sec (50.0%)	Z7 - Z8	Veg. oil / Fatty acid	60.0	25.0	Good color and gloss retention, good drying. Decorative enamel for interior and exterior applications.
S 10702HVWS	70.0+/- 1.0 (WS)	12.0 Max	4.0 max (50.0%)	Z1 - Z2 (50.0%)	Z9 +	Veg. oil / Fatty acid	60.0	25.0	High viscosity and rest of the properties same as S 10702WS.
S 10703JWS	70.0+/- 1.0 (WS)	10.0 max	4.0 max (50.0%)	200.0-220.0 Sec (50.0%)	Z9 +/-	Veg. oil / Fatty acid	60.0	25.0	Good color and gloss retention, good drying. Decorative enamel for interior and exterior applications.
S 10703WS	70.0+/- 1.0 (WS)	10.0 max	4.0 max (50.0%)	230.0-250.0 Sec (50.0%)	Z9 +/-	Veg. oil / Fatty acid	60.0	25.0	Good color and gloss retention, good drying. Decorative enamel for interior and exterior applications.
S 10704WS	70.0+/- 1.0 (WS)	12.0 max	4.0 max (50.0%)	250.0-280.0 Sec (50.0%)	Z9 +/-	Veg. oil / Fatty acid	60.0	25.0	Good color and gloss retention, good drying. Decorative enamel for interior and exterior applications.
S 10708WS	70.0+/- 1.0 (WS)	10.0 Max	3.5 max (40%)	V - X (40%) 25°C	-	Veg. oil / Fatty acid	60.0	25.0	Very high viscosity. Good color and gloss retention, good drying. Decorative enamel for interior and exterior applications.
S 10702NY	60.0+/- 1.0 (WS)	13.0 max	5.0 max (as such)	P - S 25°C	Z3 - Z5	Veg. oil / Fatty acid	60.0	25.0	Non yellowing, good color and gloss retention, good drying. Decorative enamel for interior and exterior applications.
S 10551WS	55.0+/- 1.0 (WS)	12.0 max	4.0 max (50.0%)	75.0-95.0 Sec (50.0%)	T - W	Veg. oil / Fatty acid	60.0	25.0	Good color and gloss retention, good drying. Decorative enamel for interior and exterior applications. Primers for metal and wood interior & exterior finishes.
S 10552WS	55.0+/-1.0 (WS)	7.0 max	4.0 max (50.0%)	200.0 - 220.0 Sec (50%)	Z1 - Z2	Veg. oil / Fatty acid	60.0	25.0	High viscosity and rest of the properties same as S 10551WS.

# Medium Oil Alkyds

Products	% NVM (Volatile/solvent)	Acid value (mg KOH/gm)	Color Gardner (@% Solids)	Viscosity B4 F/C @30°C (@% Solids)	Viscosity Gardner @25°C (as such)	Oil Type	%Oil (approx)	%PA (approx)	Description / Uses
S 20502WS	50.0+/- 1.0 (WS)	15.0 max	4.0 max (40.0%)	220.0- 240.0 Sec (40.0%)	Z4 - Z6	Veg. oil / Fatty acid	50.0	35.0	Architectural undercoats, general purpose white and dark shade enamels, primers for auto refinsh.
S 20505WS	50.0+/-1.0 (WS)	12.0 Max	4.0 max (40%)	200.0- 240.0 Sec (40.0%)	X - Y (@ 40% Solid)	Veg. oil / Fatty acid	50.0	35.0	Fast drying for architectural undercoats, general purpose white and dark shade enamels.
S 20552WS	55.0+/- 1.0 (WS)	15.0 max	4.0 max (40.0%)	90.0-120.0 Sec (40.0%)	Z6 - Z8	Veg. oil / Fatty acid	50.0	35.0	Architectural undercoats, general purpose white and colored enamels, fast drying, auto refinsh.
S 20601WS	60.0+/- 1.0 (WS)	10.0 max	4.0 max (40.0%)	90.0-130.0 Sec (40.0%)	Z - Z1	Veg. oil / Fatty acid	50.0	35.0	Architectural undercoats, general purpose white and dark shade enamels, fast drying auto refinsh.
S 20601XL	60.0+/- 1.0 (Xylene)	10.0 max	4.0 max (50.0%)	90.0-160.0 Sec (50.0%)	Z3 - Z4	Veg. oil / Fatty acid	50.0	35.0	Architectural undercoats, general purpose white and dark shade enamels, fast drying auto refinsh.
S 20701XL	70.0+/- 1.0 (Xylene)	15.0 max	4.0 max (50.0%)	90.0-160.0 Sec (50.0%)	Z5 - Z6	Veg. oil / Fatty acid	50.0	35.0	Architectural undercoats, general purpose white and dark shade enamels.

## Short Oil Alkyds (Non drying oil)

- For industrial stoving enamels, clear and pigmented NC lacquers and PU systems
- Excellent gloss, hardness, flexibility and excellent non yellowing properties in baking enamels

## Urethane Modified Alkyds

- For wood finishes, parquet floor coatings and exclusively for interior and exterior coatings
- Good air drying with excellent gloss and abrasive resistance

## Short Oil Alkyds ( Air Drying / Chain Stopped)

- For air drying cum stoving enamels, top coat industrial finishes, dipping enamels
- Fast air drying, resistance to yellowing and good hardness

## Styrene Modified Alkyds

- For industrial coatings, insulation varnish, machinery equipment's and hammer tone finish
- Rapid initial and through drying

## Acrylic Modified Alkyds

- For use in industrial stoving enamels including can and coil coatings
- Rapid drying, quick rise in hardness and excellent flexibility

## Aluminium Paint Medium

- For aluminium paints with good anti rust properties
- Good adhesion to metal, having good solvent and chemical resistance

## Alkyd Polyol

- For industrial top coats, primers for metal, wood and aluminium substrates suitable for two pack PU
- Excellent gloss, recoat ability, fast drying and excellent chemical resistance

# Short Oil Alkyds (Non Drying Oil)

Products	% NVM (Volatile/ solvent)	Acid value (mg KOH/ gm)	OH value (mg KOH/ gm)	Color, Gardner/ Hazen @ solids	Viscosity Gardner @25°C/ @ 50% XL*	Oil Type	%Oil (approx)	%PA (approx)	Description / Uses
S 40601SN	60.0+/- 1.0 (SN 100)	10.0 max	95.0 - 100.0	2.0 max (60.0%)	Z2 - Z3	Saturated Fatty Acid	32.0 +/-2.0	41.0-43.0	For general Industrial purpose, domestic appliances and can coating.
C 40602XL	60.0+/- 1.0 (Xylene)	15.0 max	115.0-125.0	2.0 max (50.0%)	P - S	Coconut oil fatty acid (COFA)	32.0 +/-2.0	41.0-43.0	For industrial stoving enamels, clear and pigmented NC lacquers and PU systems. Excellent gloss, hardness, flexibility and excellent non yellowing properties in baking enamels.
C 40603XL	60.0+/- 1.0 (Xylene)	15.0 max	115.0-125.0	2.0 max (50.0%)	W - Z	Coconut oil fatty acid (COFA)	32.0 +/-2.0	41.0-43.0	High viscosity, low color. For industrial stoving enamels, clear and pigmented NC lacquers and PU systems. Excellent gloss, hardness, flexibility and excellent non yellowing properties in clear/ pigmented baking enamels.
C 40701XL	70.0+/- 1.0 (Xylene)	15.0 max	120.0-130.0	2.0 max (50.0%)	W - Z	Coconut oil fatty acid (COFA)	32.0 +/-2.0	41.0-43.0	For industrial stoving enamels, clear and pigmented NC lacquers and PU systems. Excellent gloss, hardness, flexibility and excellent non yellowing properties in clear/ pigmented baking enamels.
C 40702XL	70.0+/- 1.0 (Xylene)	15.0 max	115.0-125.0	2.0 max (50.0%)	P - S	Coconut oil fatty acid (COFA)	37.0 +/-2.0	41.0-43.0	For industrial stoving enamels, clear and pigmented NC lacquers and PU systems. Excellent gloss, hardness, flexibility and excellent non yellowing properties in baking enamels.
C 40703XL	70.0+/- 1.0 (Xylene)	15.0 max	100.0-110.0	2.0 max (60.0%)	X - Z @ 60.0%	Coconut oil fatty acid (COFA)	32.0 +/-2.0	41.0-43.0	Industrial baking enamels for light fixtures and home appliances, auto refinishing lacquers. Clear and pigmented NC lacquer based top coats for furniture and electrical appliances. Two pack PU systems for metal and wood coatings.

# Urethane Modified Alkyds

Products	% NVM (Volatile/ solvent)	Acid value (mg KOH/ gm)	Color Gardner @ solids	Viscosity B4 F/C@30°C (%Solids WS)	Viscosity Poise/ Gardner @25°C	Oil Type	%Oil (approx)	Isocyanate Type / %	Description / Uses
S 60551WS	55.0+/-1.0 (WS)	2.0 max	6.0 max (as such)	-	X - Z	Veg. oil / Fatty acid	60.0+/-1.0	Aromatic 15.0 Max	General purpose urethane alkyd with good abrasion resistance and good drying properties.
S 60553WS	55.0+/-1.0 (WS)	2.0 max	6.0 max (45.0 %)	90.0 - 120.0 Sec (45.0%)	Z6 +	Veg. oil / Fatty acid	60.0 +/-1.0	Aromatic 15.0 Max	Single pack having good air drying with excellent gloss and abrasive resistance recommended for wood finishes, parquet/ floor coatings and exclusively for interior coatings.
S 60553LVWS	55.0+/-1.0 (WS)	2.0 max	6.0 max (as such)	-	11.0 - 14.0 Ps	Veg. oil / Fatty acid	60.0 +/-1.0	Aromatic 15.0 Max	Low viscosity, single pack having good air drying with excellent gloss and abrasive resistance recommended for wood finishes, parquet/floor coatings and exclusively for interior coatings only.
S 60553HVWS	55.0+/-1.0 (WS)	2.0 max	6.0 Max (45.0%)	130.0 - 150.0 Sec (45.0%)	-	Veg. oil / Fatty acid	60.0+/-1.0	Aromatic 15.0 Max	High viscosity single pack having good air drying with excellent gloss and abrasive resistance recommended for wood finishes, parquet/floor coatings and exclusively for interior coatings.
S 60601LVWS	60.0 +/-1.0 (WS)	2.0 max	6.0 max (as such)	-	45.0-65.0 Ps @ 25 °C	Veg. oil / Fatty acid	60.0 +/-1.0	Aromatic 15.0 Max	High solid, single pack having good air drying with excellent gloss and abrasive resistance recommended for wood finishes, parquet/floor coatings and exclusively for interior coatings only.
S 60601HVWS	60.0 +/-1.0 (WS)	2.0 max	6.0 max (50.0%)	250.0 - 300.0 Sec (50.0%)	1500.0 +/- 350.0 Ps	Veg. oil / Fatty acid	60.0 +/-1.0	Aromatic 15.0 Max	High solid, single pack having good air drying with excellent gloss and abrasive resistance recommended for wood finishes, parquet/floor coatings and exclusively for interior coatings only.
S 60603ExtWS	60.0 +/-1.0 (WS)	2.0 max	6.0 max (50.0%)	50.0 - 65.0 Sec (50.0%)	40.0-65.0 Ps	Veg. oil / Fatty acid	60.0 +/-2.0	Aliphatic 15.0 Max	Single pack having good air drying with excellent gloss and abrasive resistance recommended for wood finishes, parquet/ floor coatings and exclusively for exterior coatings only.





## Short Oil Alkyds (Air Drying / Chain Stopped)

Products	% NVM (Volatile/solvent)	Acid value (mg KOH/gm)	OH value (mg KOH/gm)	Color, Gardner @ 50% solids XL	Viscosity Gardner @25°C/ @ 50% XL	Oil Type	%Oil (approx)	%PA (approx)	Description / Uses
S 50553XL	55.0+/- 1.0 (Xylene)	15.0 max	105.0 - 115.0	5.0 Max	Z4 - Z5 (as such)	Soya fatty acid (SOFA)	30.0 +/- 2.0	29.0 - 31.0	For air drying cum force drying enamel, for top coats for machinery / equipments and industrial dipping enamel.
S 50601XL	60.0+/- 1.0 (Xylene)	15.0 max	65.0 - 75.0	4.0 max	S - U	Soya fatty acid (SOFA)	34.0 +/- 2.0	30.0 - 32.0	Air drying cum stoving enamels, top coat industrial finishes, dipping enamels. Fast air drying, resistance to yellowing and good hardness.
S 50603XL	60.0+/- 1.0 (Xylene)	10.0 max	85.0 - 95.0	3.0 max	Z5 - Z7 (as such)	Tall oil fatty acid (TOFA)	30.0 +/- 2.0	29.0 - 31.0	For stoving, air drying, two pack PU systems and acid catalysed UF for wood finishes. Fast drying, good gloss, good hardness.
S 50602XL	60.0+/- 1.0 (Xylene)	8.0 max	110.0 - 120.0	5.0 max	90 - 130 Ps on BF	Tall oil fatty acid (TOFA)	30.0 +/- 2.0	29.0 - 31.0	For air drying cum stoving enamel, twin pack PU primer.
S 50702HVXL	70.0+/-1.0 (Xylene)	8.0 Max	110.0 - 120.0	5.0 max (60.0%)	Z5 - Z6 (60.0%)	Tall oil fatty acid (TOFA)	30.0 +/- 2.0	29.0 - 31.0	For general industrial stoving enamel, pigmented poly urethane/ NC Lacquers/ acid curing finishes.
S 50701XL	70.0+/-1.0 (Xylene)	15.0 max	115.0 - 120.0	4.0 max	X - Z1	Soya fatty acid (SOFA)	30.0 +/- 2.0	29.0 - 31.0	For stoving cum air drying industrial enamels. Fast drying suitable for auto refinish, good gloss, hardness and chemical resistance.
S 50751MB	75.0+/- 1.0 (MAK / BA)	12.0 max	35.0 - 40.0	10.0 max	Z3 - Z5	Tall oil fatty acid (TOFA)	30.0 +/- 2.0	29.0 - 31.0	For the manufacture of general industrial air dry and floor dry enamels.

## Styrene Modified Alkyds

Products	% NVM (Volatile/solvent)	Acid value (mg KOH/gm)	Color Gardner @ solids	Viscosity B4 F/C @ 30°C (%Solids WS)	Viscosity Poise/ Gardner @25°C	Oil %	%PA (Approx)	Description / Uses
S 30551XL	55.0 +/-1.0 (Xylene)	15.0 max	5.0 max	100 - 120 Sec (B4 cup @ 28% Solid, 25°C)	Z6 - Z7	31.0 - 32.0	15.0 - 17.0	Low solid, very high viscosity, quick drying, suitable in protective surface coatings such as primers, top coat and hammer tone finishes.
S 30601XL	60.0 +/-1.0 (Xylene)	15.0 max	6.0 max	15.0 - 30.0	Y - Z2	31.0 - 32.0	15.0 - 17.0	Medium viscosity, quick drying, industrial finishes, insulating varnish and machinery equipment.
S 30601LVXL	60.0 +/-1.0 (Xylene)	15.0 max	6.0 max	5.0 - 8.0	T - V	31.0 - 32.0	15.0 - 17.0	Low viscosity, quick drying, industrial finishes, insulating varnish, machinery equipment.
S 30601HVXL	62.0 +/-1.0 (Xylene)	15.0 max	6.0 max	80.0 - 130.0 @ 25°C	Z4 - Z6	31.0 - 32.0	15.0 - 17.0	Very high viscosity, quick drying. Large pattern hammer finishes, fast drying industrial finishes. Good recoat ability and chemical resistance.
S 30602WS	60.0 +/-1.0 (WS)	3.0 max	5.0 max	3.5 - 4.5 @ 25°C	-	31.0 - 32.0	15.0 - 17.0	Suitable with aluminium paste for properties of long lasting shining and good gloss.
S 30701XL	70.0 +/-1.0 (Xylene)	15.0 max	6.0 max	110.0 - 130.0	Z5 - Z6	31.0 - 32.0	15.0 - 17.0	High solid, quick drying suitable for hammer tone finishes. Excellent hardness and chemical resistance.





## Acrylic Modified Alkyds

Products	% NVM (Volatile/ solvent)	Acid value (mg KOH/ gm)	Color Gardner	Viscosity BF @ 25°C	Viscosity Gardner @25°C	Oil %	%PA (Approx)	Description / Uses
S 35605SN	60.0 +/-1.0 (SN 150)	7.0 max	3.0 max	25.0 - 35.0	Z1 - Z2	39.0 - 41.0	15.0 - 17.0	Acrylated modified alkyd resin for pigmented roller coating enamels and baking system.
S 35751M	75.0 +/- 1.0	2.0 max	5.0 max	-	Z5 - Z6	39.0 - 41.0	15.0 - 17.0	Acrylated modified alkyd resin for general industrial direct-metal enamels, top coat and agriculture implements.

## Aluminium Paint Medium

Products	% NVM (Volatile/ solvent)	Acid Value (mg KOH/ gm)	Color, Gardner	OH value (mg KOH/gm)	Viscosity B.F @30°C	Description / Uses
L 60501WS	50.0+/- 1.0 (WS)	1.0 max	8.0 max	8.0 max	15.0 - 25.0 Sec	For anti rust coatings. Good adhesion to metal, having good solvent and chemical resistance.
L 60602WS	60.0+/- 1.0 (WS)	1.0 max	8.0 max	8.0 max	15.0 - 25.0 Sec	For anti rust coatings. Good adhesion to metal, having good solvent and chemical resistance.
L 60751XL	75.0+/- 1.0 (Xylene)	1.0 max	8.0 max	8.0 max	13.0 - 17.0 Sec	For anti rust coatings. Good adhesion to metal. Suitable for hammer tone finishes. Good solvent and chemical resistance.

## Alkyd Polyol

Products	% NVM (Volatile/ solvent)	Acid value (mg KOH/ gm)	OH value (mg KOH/ gm)	Color, Gardner@ 50% solids	Viscosity Gardner @25°C / @ 50% XL	Oil Type	%Oil (approx)	%PA (approx)	Description / Uses
AP 7030XL	70.0+/- 1.0 (Xylene)	15.0 max	90.0-100.0	6.0 max	S - U	Veg. oil / Fatty acid	30.0 +/-2.0	29.0-31.0	For industrial top coats, primers for metal, wood and aluminium substrates. Suitable for two pack PU. Excellent gloss, recoatability, fast drying, excellent chemical resistance.





## Acrylic Polyols : For two pack polyurethane based system

- Suitable for wood, plastic, metal and high performance automotive coatings
- Excellent water and chemical resistance, good pot life and high gloss

## Thermosetting Acrylics

- For automotive metallic base coat, clear, pigmented top coats and general stoving enamels
- Excellent weather and scratch resistance, good adhesion

## Thermoplastic Acrylics

- For general purpose masonry, decorative coatings, aerosol paint
- TPA exhibits good gloss, color retention, setting properties, good outdoor durability, excellent soap and detergent resistance



# Acrylic Polyols

Products	% NVM (Volatile/ solvent)	Acid Value (mg KOH/ gm)	OH Content (%)	Color Hazen value APHA	Viscosity Poise gardner @25°C	Description / Uses
AC 70501BA	50.0 +/- 2.0 (BA)	4.0 +/- 2.0	2.0 +/- 0.2	50.0	30.0 - 50.0	Suitable for general industrial coatings, wood finishing systems.
AC 70601XL	60.0 +/- 1.0 (XL)	10.0 max	2.67 +/- 0.05	50.0	25.0 - 40.0	It is used for general purpose industrial coatings suitable for wood, metal and plastic substrates. It possess excellent performance towards mechanical and chemical resistance.
AC 70602SN	60.0 +/- 1.0 (SN-100)	10.0 max	2.67 +/- 0.05	50.0	18.0 - 40.0	Similar to AC 70601XL in terms of performance and properties but supplied in SN100 for ease of application & achieve good levelling during spraying followed by ambient temperature or forced drying.
AC 70602XL	60.0 +/- 1.0 (XL)	10.0 max	1.5 +/- 0.1	50.0	25.0 - 35.0	It has very good CAB compatibility and excellent gloss.
AC 70603XL	60.0 +/- 1.0 (XL)	10.0 max	1.5 +/- 0.1	50.0	25.0 - 35.0	It is used for general purpose industrial coatings and suitable for exterior decorative, wood, metal and plastic substrates.
AC 70604XL/CA	60.0 +/- 1.0 (XL/CA)	5.0 - 10.0	2.73 +/- 0.15	50.0	10.0 - 25.0	Recommended specially for wood coating finishes. Excellent performance towards weather resistance, gloss and gloss retention having good mechanical and chemical properties in end use application and performance.
AC 70605SN	60.0 +/- 1.0 (SN-100)	10.0 max	1.8 +/- 0.2	50.0	20.0 - 24.0	Suitable for two component system for general industrial finishes and machine protective top coats. Exhibits excellent weather resistance with good setting characteristics and pot life.
AC 70605XL	60.0 +/- 1.0 (XL)	5.0 max	1.8 +/- 0.2	50.0	12.0 - 25.0	Similar to AC 70605SN but supplied in XL for achieving good drying characteristics during air drying at ambient temperature or forced drying for industrial metal coatings.
AC 70606XL/BA	60.0 +/- 1.0 (XL/BA)	6.0 max	3.0 +/- 0.30	100.0	17.0 - 23.0	Recommended specially for automotive top coat system and industrial applications which exhibits excellent weather resistance and light fastness with good gloss retention performance.
AC 70608XL	60.0 +/- 1.0 (XL)	3.50 +/- 1.0	1.25 +/- 0.05	50.0	40.0 - 50.0	Suitable for two component PU system for air drying as forced drying primers and top coats for industrial applications. It exhibits high gloss and excellent mechanical properties having superior adhesion to metals and non-iron (aluminium and zinc) substrates.
AC 70608SN	60.0 +/- 1.0 (SN-100)	2.0 - 4.0	1.25 +/- 0.05	50.0	40.0 - 50.0	Suitable for industrial coatings, single coat adhesion for metals and nonferrous metals. Similar to AC 70608XL in terms of performance.
AC 70609XL	60.0 +/- 1.0 (XL)	10.0 max	2.67 +/- 0.2	50.0	30.0 - 40.0	Suitable for two component PU system for top coats for industrial applications. It exhibits rapid drying, excellent durability, chemical and stain resistance having superior adhesion and flow/levelling properties.
AC 70609E(XL)	60.0 +/- 1.0 (XL)	10.0 max	2.67 +/- 0.2	1.0 Gardener	30.0 - 40.0	Similar to AC 70609XL having matching performance. It is designed partly with bio based monomers to reduce carbon footprint to promote eco-friendly (green chemistry) without compromising on quality.
AC 70605XL/BA	60.0 +/- 1.0 (XL/BA)	5.0 - 14.0	1.8 +/- 0.2	50.0	Y - Z1	Two component system suitable for wood, plastic metal and heavy duty maintenance and high performance architectural/industrial coatings.
AC 70609HVXL	60.0 +/- 1.0 (XL)	10.0 max	2.67 +/- 0.2	50.0	70.0 - 90.0	High viscosity and rest of the properties same as AC 70609 XL.
AC 70608XL/SN	60.0 +/- 1.0 (XL/SN 100)	3.0 - 5.0	0.75 +/- 0.2	50.0	Z5 - Z7	It is used for general purpose industrial coatings and suitable for exterior decorative, wood, metal and plastic substrates.
AC 70631XL	63.0 +/- 1.0 (XL)	5.0 - 8.0	2.6 +/- 0.15	50.0	Z3 - Z5	Two component system suitable for wood, plastic metal and heavy duty maintenance and high performance architectural/industrial coatings.
HS 70651BA	65.0 +/- 1.0 (BA)	5.0 - 15.0	3.0 +/- 0.1	100.0	20.0 - 30.0	Two component system suitable for automotive coatings, plastic/ metal and heavy duty maintenance coatings.
HS 70701XL/SN	70.0 +/- 1.0 (XL/SN 100)	14.0 max	3.1 +/- 0.2	100.0	20.0 - 30.0	Suitable for two component top coat and clear coats for general industrial finishes and machine protective top coats. Exhibits excellent weather resistance with good setting characteristics.
HS 70703XL/BA	70.0 +/- 1.0 (XL/BA)	5.0 - 8.0	3.03 +/- 0.15	50.0	Z3 - Z5	Two component system suitable for wood coatings, plastic and metal finishes. Heavy duty maintenance and high performance protective coatings.
HS 70701EXL/SN	70.0 +/- 1.0 (XL/SN 100)	14.0 max	3.1 +/- 0.2	1.0 Gardener	20.0 - 30.0	Similar to HS 70701XL/SN having matching performance. It is designed partly with bio based monomers to reduce carbon footprint to promote eco-friendly (green chemistry) without compromising on quality.
HS 70702XL	70.0 +/- 1.0 (XL)	10.0 max	1.5 +/- 0.2	50.0	40.0 - 60.0	It has very good CAB compatibility and excellent gloss.
HS 70703XL	70.0 +/- 1.0 (XL)	10.0 max	1.5 +/- 0.2	50.0	40.0 - 60.0	It is used for general purpose industrial coatings and suitable for exterior decorative, wood, metal and plastic substrates.

# AUTO REFINISHING SYSTEMS

## ACRYLIC POLYOLS FOR TWO PACK PU

Products	% NVM (Volatile/ solvent)	Acid value (mg KOH/ gm)	OH Content (%)	Color APHA	Viscosity, Poise @25°C	Description / Uses
AC 74501XL	50.0 +/- 1.0 (XL)	10.0 max	4.0+/-0.2	50.0	10.0 - 15.0	Suitable for two component PU system for rail and road transport, industrial repair system for train and tram units, marine paints and free-fab buildings. It exhibits excellent hardness, exterior durability coupled with excellent mechanical properties and ease of application such as airless spray and also under severe humidity/low temperature conditions.
AC 74603XSB	60.0 +/- 1.0 (XL/SN/BA)	8.0 max	4.5+/-0.2	100.0	26.0 - 36.0	At ambient temperature drying or forced drying two pack systems with high gloss, excellent mechanical/chemical properties with good outdoor durability especially suitable for automotive repair topcoats or clear coats.
AC 74603LVXL/ PMA	60.0 +/- 1.0 (XL/PMA)	3.0 - 6.0	4.2+/-0.2	50.0	22.0 - 36.0	Application for room temperature drying or forced drying for two pack systems for auto refinishing system (top coat and clear coats) with excellent mechanical/chemical properties with very good gloss retention, superior outdoor durability.
HS 74651XL/BA	65.0 +/- 1.0 (BA/XL)	8.0 - 12.0	4.2+/-0.2	50.0	25.0 - 45.0	Product is suitable for application requiring excellent light stability and weather resistance specially designed for air drying automotive refinish coatings. Film exhibits excellent mechanical properties having good solvent/gasoline resistance.
HS 74702LVBA	70.0 +/- 1.0 (BA)	4.0 - 9.0	4.5+/-0.3	50.0	28.0 - 45.0	Two component system specially suitable for high quality automotive refinishes-solid and top coat. Clear and related high performance top coat industrial coatings.
HS 74702HVBA	70.0 +/- 1.0 (BA)	4.0 - 9.0	4.5+/-0.3	70.0	70.0 - 110.0	Two component system specially suitable for high quality automotive refinishes-solid and top coat. Clear and related high performance top coat industrial coatings.
HS 74707BA	70.0 +/- 1.0 (BA)	4.0 - 9.0	4.2+/-0.2	70.0	70.0 - 100.0	Recommended for two component top coat / clear coat car repairs and top coats for plastic coatings. It also serves as machine lacquers, protective coatings in general industrial coatings.
HS 74702BA	70.0 +/- 1.0 (BA)	4.0 - 8.0	4.5+/- 0.3	100.0	36.0 - 60.0	Two component system suitable application for high quality automotive refinishes-solid color and top coat. Clear and high performance top coat industrial coatings.
HSP 74651XBP	70.0 +/- 1.0 (BA/XL/PMA)	15.0 max	3.2+/-0.2	50.0	80.0 - 100.0	Product for automotive refinishing coatings. Film exhibits excellent mechanical properties having good gloss, DOI and gasoline resistance.
HSP 74705XBP	70.0 +/- 1.0 (BA/XL/PMA)	15.0 max	4.3+/-0.2	50.0	50.0 - 80.0	Product for automotive refinishing coatings. Film exhibits excellent mechanical properties having good gloss, hardness, exterior durability.
HS 70703BA	70.0 +/- 1.0 (BA)	10.0 - 15.0	3.0+/- 0.2	50.0	80.0 - 140.0	Suitable for two pack PU paint systems for automotive coatings. It exhibits fast drying, high hardness, excellent gloss and good mechanical properties.

## CAR PUTTY RESINS - (Unsaturated Polyester Resin)

Products	Color / Clarity	% NVM (Volatile/ Solven)	Viscosity BF/@25°C mPa.s	Acid value (mg KOH/ gm)	Gel Time @25°C/ Min	Description / Uses
CP 90601PA	Pale Greenish/ brownish	61.0 - 64.0 (Styrene)	350.0 - 450.0	15.0 max	6.0 - 8.0	It is specially designed and found suitable in manufacture of car body fillers and putties cured with benzoyl peroxides. Suitable for low temperature curing. Filler paste based on these resins show excellent sandability and do not rapidly clog on sand paper.
CP 90603PA	Pale yellowish/ brownish	64.0+/- 2.0 (Styrene)	450.0 - 550.0	5.0 - 15.0	6.0 - 8.0	Moderate flexibility with rest of the properties same as CP 90601 PA.
CP 90605 PA	Pale yellowish/ brownish	64.0+/- 2.0 (Styrene)	400.0 - 500.0	5.0 - 15.0	6.0 - 8.0	High flexibility with rest of the properties same as CP 90601 PA.
CP 90602PA	Pale Greenish/ brownish	65.0+/- 1.5 (Styrene)	350.0 - 450.0	25.0 max	6.0 - 8.0	Versatile and economical grade car putty resin suitable for hand application having good sandability when cured with peroxides at ambient temperature.
CPP 90602PA	Dark brownish	70.0+/- 2.0 (Styrene)	600.0 - 700.0 @28°C	25.0 max	6.0 - 8.0 @28°C	Specially designed for wet sanding application.



# Thermosetting Acrylics

Products	% NVM (Volatile/solvent)	Acid Value (mg KOH/gm)	Color Hazen value APHA	Viscosity Poise/ Gardner Scale@25°C	Description / Uses
TSA 7010XB50	50.0 +/- 2.0 (Xylene/BuOH)	10.0 max	50.0	7.0 - 11.0	Suitable for automotive metallic base coat, clear / pigmented top coats and general stoving enamel.
TSA 7020XB50	50.0 +/- 1.0 (Xylene/BuOH)	10.0 max	50.0	2.1 - 4.2	For general industrial finish, consumer electronics and coil coatings.

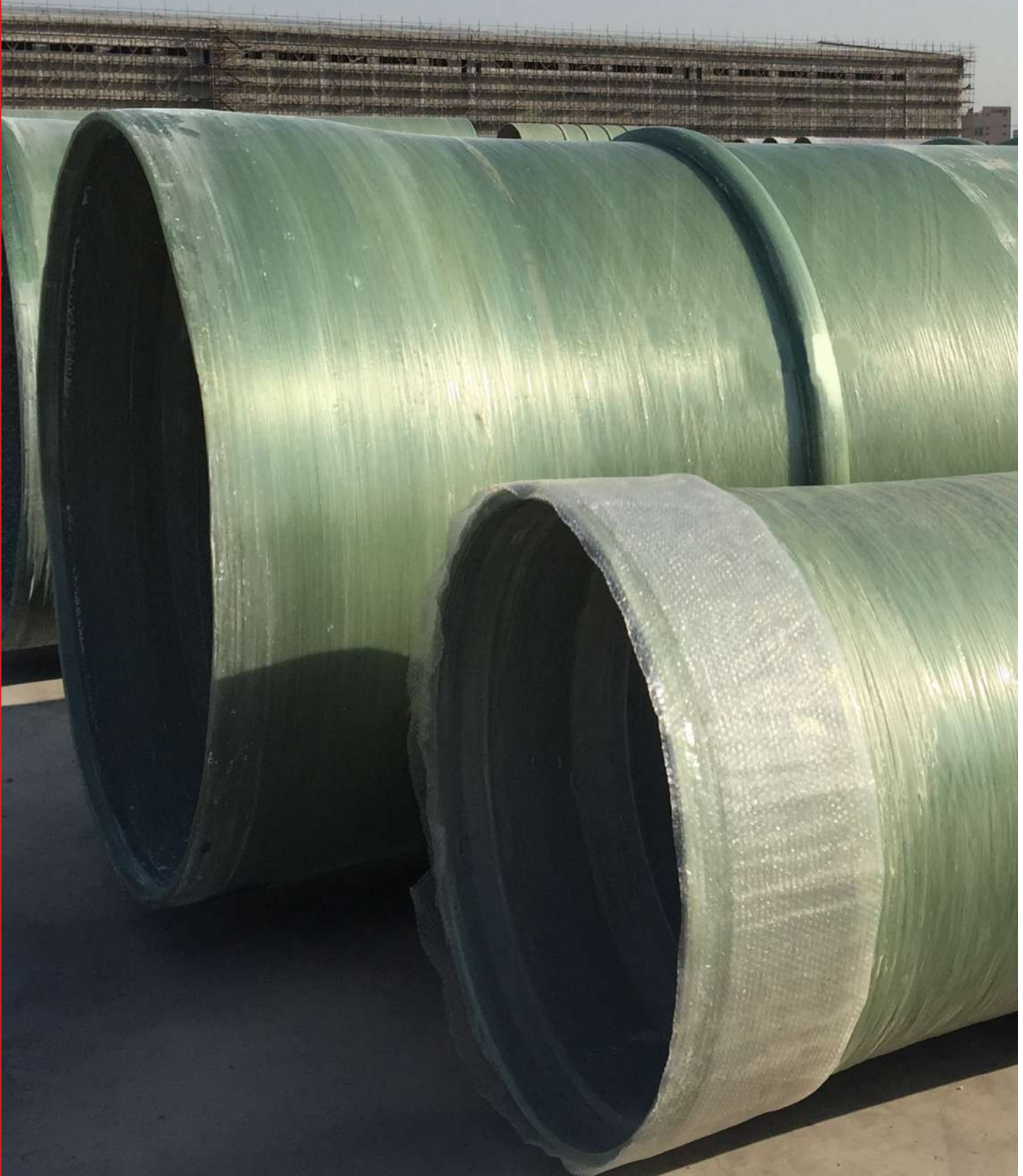
# Thermoplastic Acrylics

Products	% NVM (Volatile/solvent)	Acid Value (mg KOH/gm)	Color Gardner/ Hazen value	Viscosity Poise/ Gardner Scale@30°C	Description / Uses
TPA 4010X50	50.0 +/- 1.0 (Xylene)	10.0 max	1.0 max	40.0 - 60.0	Main application is for general purpose masonry, decorative coatings, aerosol paints. TPA exhibit good gloss, color retention, setting properties, good outdoor durability, excellent soap and detergent resistance.
TPA 4010X55	55.0 +/- 1.0 (Xylene)	12.0 max	1.0 max	80.0 - 95.0	Main application is for general purpose masonry and decorative coatings. TPA exhibit good gloss, color retention, setting properties, good outdoor durability, excellent soap and detergent resistance.
TPA 4010X58	58.0 +/- 1.0 (Xylene)	15.0 max	1.0 max	95.0 - 140.0	Main application is for general purpose masonry, decorative coatings, aerosol paints. TPA exhibit good gloss, color retention, setting properties, good outdoor durability, excellent soap and detergent resistance.
TPA 4010X60	60.0 +/- 1.0 (Xylene)	15.0 max	1.0 max	90.0 - 140.0	Main application is for general purpose masonry, decorative coatings, aerosol paints. TPA exhibit good gloss, color retention, setting properties, good outdoor durability, excellent soap and detergent resistance.
TPA 4010X60HV	60.0 +/- 1.0 (Xylene)	15.0 max	1.0 max	255.0 - 285.0	Similar to TPA 4010X60 in terms of application and performance but supplied at high viscosity.
TPA 4020X50	50.0 +/- 1.0 (Xylene)	4.0 - 6.0	1.0 max	250.0 - 350.0 @25°C	Main application is for road marking paints, general purpose masonry and decorative coatings. TPA exhibit good gloss, color retention, setting properties, good outdoor durability, excellent mechanical properties and solvent resistance. Excellent soap and detergent resistance.
TPA 4020X58	58.0 +/- 1.0 (Xylene)	4.0 - 6.0	1.0 max	250.0 - 350.0 @25°C	Main application is for road marking paints, general purpose masonry and decorative coatings. TPA exhibit good gloss, color retention, setting properties, good outdoor durability, excellent mechanical properties and solvent resistance. Excellent soap and detergent resistance.
TPA 4020BA58	58.0 +/- 1.0 (Butyl Acetate)	4.0 - 7.0	1.0 max	110.0 - 130.0	Fatty acid modified TPA resin, solo binder for non aromatic road marking paints.
TPA 4020BA65FA	65.0 +/- 1.0 (Butyl Acetate)	22.0 - 32.0	1.0 max	30.0 - 60.0	Main application is for road marking paints, general purpose masonry and decorative coatings. TPA exhibit good gloss, color retention, setting properties, good outdoor durability, excellent mechanical properties and solvent resistance. Excellent soap and detergent resistance.
TPA 4050X55	55.0 +/- 1.0 (Xylene)	12.0 max	1.0 max	80.0 - 100.0	It has very good CAB compatibility, excellent gloss and exterior durability characteristics.
TPA 4050X65	65.0 +/- 1.0 (Xylene)	12.0 max	1.0 max	225.0 - 325.0	It has very good CAB compatibility, excellent gloss and exterior durability characteristics.
TPA 4060WS	60.0 +/- 1.0 (White Spirit)	4.0 - 10.0	1.0 max	25.0 - 50.0 @ 25°C	Fast drying specially for interior and exterior decorative coatings.
TPA 4060SN	60.0 +/- 1.0 (SN 100)	15.0 max	1.0 max	110.0 - 140.0	General purpose masonry, decorative coatings, it has excellent gloss and exterior durability characteristics.



## Unsaturated Polyesters

- For production of tanks, buttons, SMC sheets, quartz marble, roofing sheets, boats and filament winding pipes
- Excellent mechanical properties





# Unsaturated Polyesters

Products	Color / Clarity	% NVM (Volatile/ solvent)	Viscosity B/F @ 25°C / cPs	Gel time @25°C/ Min	Description / Uses
OP 90601NA	Pale yellow clear	62.0 +/- 2.0 (Styrene)	300.0 – 400.0	10.0 +/- 5.0	Ortho based unsaturated polyester resin having outstanding mechanical properties with high resistance to hydrolysis and low absorption of water. Recommended for production of tanks and pipes by filament winding process.
OP 90601PAM	Clear liquid	62.0 +/- 3.0 (Styrene)	450.0 – 550.0	15.0 +/- 5.0	General purpose unsaturated polyester resin having low viscosity with medium reactivity. Recommended for production of tanks and general fabrication.
OP 90601UV	Pale yellow clear	64.0 +/- 3.0 (Styrene)	200.0 – 400.0	15.0 +/- 3.0	General purpose unsaturated polyester resin having low viscosity and medium reactivity with suitable UV stabilizer. It is specially designed for the manufacture of roofing sheets, tanks and general fabrication.
OP 90602PA	Pinkish cloudy	60.0 +/- 2.0 (Styrene)	275.0 – 325.0	15.0 +/- 5.0	Pre accelerated, thixotropic, ortho based unsaturated polyester resin. It has good mechanical performance combined with high elongation at break and good HDT.
OP 90602PAB	Pinkish cloudy	60.0 +/- 1.0 (Styrene)	700.0 – 900.0	15.0 – 20.0	Pre accelerated, high thixotropic, ortho based unsaturated polyester resin specially designed for boat and yacht.
OP 90604NA	Clear liquid	68.5 +/- 1.5 (Styrene)	1200.0 – 1500.0	5.0 – 10.0	Button grade orthophthalic polyester resin with high viscosity, un-accelerated and non waxed.
OP 90606NA	Pale yellow clear	64.0 +/- 2.0 (Styrene)	1000.0 – 1200.0	7.0 – 13.0 @80°C	Ortho based unsaturated polyester resin for SMC/BMC application.
OP 90611NA	Pale yellow clear	60.0 +/- 2.0 (Styrene)	600.0 – 800.0	7.0 +/- 2.0 @80°C	Ortho based unsaturated polyester resin for quartz marble.
OP 90611PA	Pale yellow clear	70.0 +/- 2.0 (Styrene)	1200.0 – 1800.0	8.0 – 12.0	Ortho based pre-promoted unsaturated polyester resin for marble putty.
IP 90604NA	Pale yellow clear	60.0 +/- 2.0 (Styrene)	450.0 – 550.0	12.0 +/- 2.0	It has good mechanical performance combined with a high elongation at break and good HDT. Recommended for tanks and pipes by filament winding.
IP 90605PA	Pinkish cloudy	60.0 +/- 2.0 (Styrene)	400.0 – 600.0	10.0 +/- 5.0	Iso-phthalic and neopentyl glycol based pre-accelerator unsaturated polyester resin modified with acrylic monomer and UV stabilizer. It is suitable for production of room temperature curing of solid surface products, sanitary wares, countertops and wall panel.
IP 90606 NA	Pale yellow clear	66.0 +/- 2.0 (Styrene)	2000.0 – 2500.0	10.0 – 13.0 @80°C	ISO based unsaturated polyester resin for SMC/BMC application.
IP 90609NA	Pale yellow clear	60.0 +/- 2.0 (Styrene)	1000.0- 1200.0	9.0 +/- 2.0 @80°C	Iso-phthalic based polyester resin having outstanding mechanical properties, high resistance to hydrolysis and low absorption of water. It is designed for specially for pultrusion application. This resin rapidly wets the surface of glass fibre in the form of cloth, roving and emulsion and powder bonded mats.
PW 90751NA	Pale yellow clear	75.0 +/- 2.0 (Styrene)	2300.0 – 2500.0	8.0 – 12.0	Ortho based unsaturated polyester resin for wood sanding sealer / top coat.

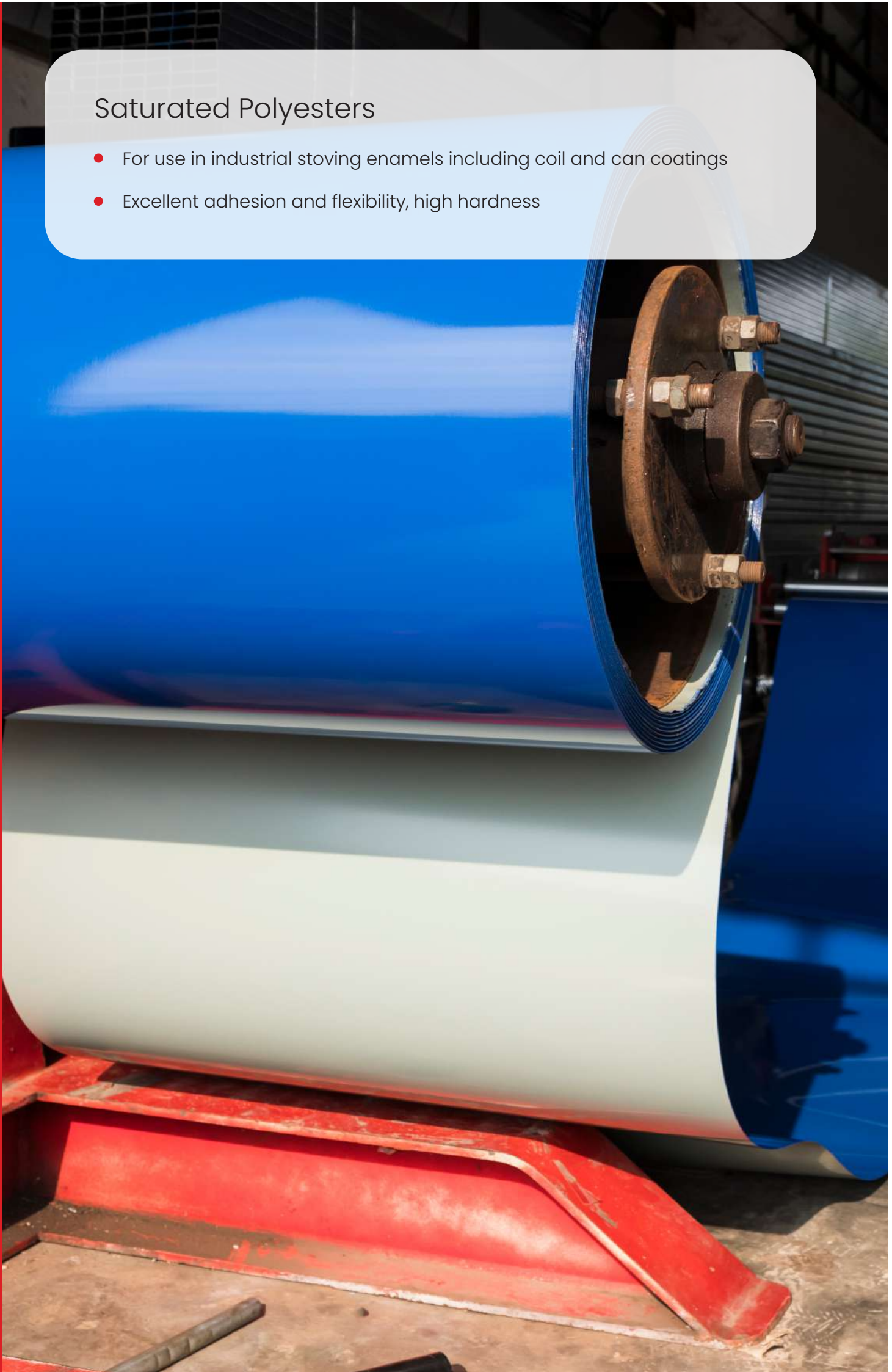
# Vinyl Esters

Products	Color / Clarity	% NVM (Volatile/ solvent)	Viscosity B/F @ 25°C / cPs	Gel time @25°C/ Min	Description / Uses
VE 90606NA	Yellow Clear	55.0 – 60.0 (Styrene)	400.0 – 600.0	10.0 – 15.0	Specially designed for hand lay-up and filament winding applications.



## Saturated Polyesters

- For use in industrial stoving enamels including coil and can coatings
- Excellent adhesion and flexibility, high hardness





# Saturated Polyesters

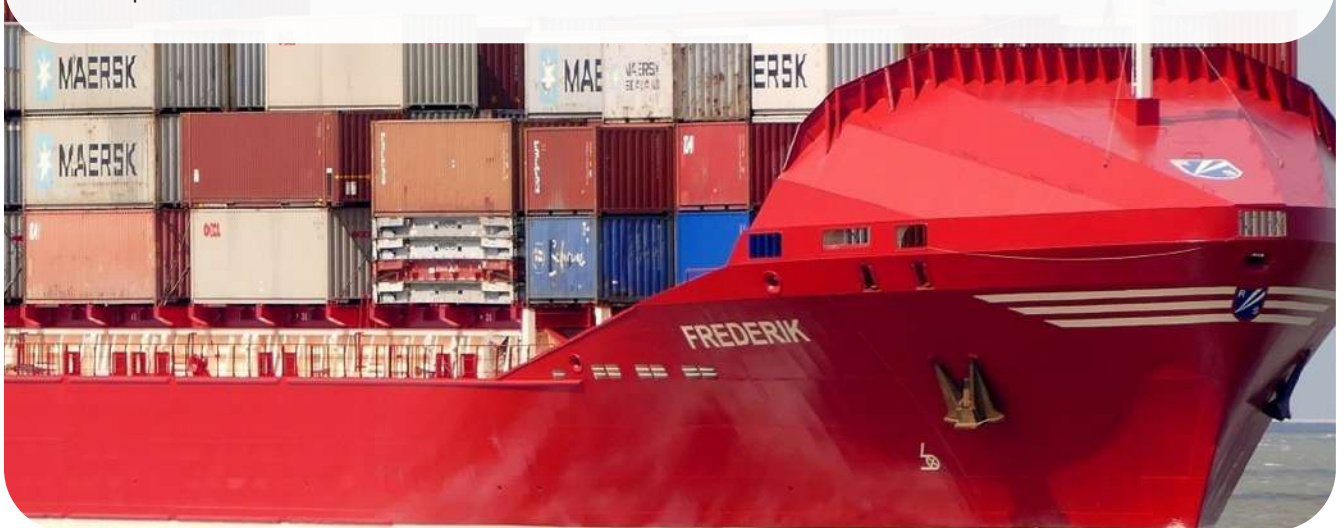
Products	color/ Gardner (as such) Clarity	% NVM (Volatile/ solvent)	OH Value (mg KOH/ gm)	Acid value (mg KOH/ gm)	Viscosity <sup>o</sup> B/F @ 25°C/ Poise	Description / Uses
SP 80502SN/BG	2.0 max	50.0 +/- 1.0 (SNI50/BG)	50.0 - 55.0	5.0 max	20.0 - 28.0	High hardness and flexibility.
SP 80602SN/PMA	1.0 max	60.0 +/- 1.0 (SNI50/PMA)	70.0 - 75.0	8.0 max	44.0 - 54.0	White base coat for general line application.
SP 80605SN	3.0 max	60.0 +/- 1.0 (SNI50)	30.0 - 35.0	10.0 max	Z3 - Z5	Excellent flexibility and forming properties.
SP 80607SN/BG	2.0 max	60.0 +/- 1.0 (SNI50/BG)	45.0 - 50.0	3.0 max	15.0 - 25.0	High flexibility, excellent solvent and chemical resistance.
SP 80603SN	2.0 max	63.0 +/- 1.0 (SNI50)	35.0 - 40.0	5.0 - 10.0	120.0 - 170.0	Recommended for use in can coating, tube coatings & white base coats.
SP 80653SN/BG	3.0 max	65.0 +/- 1.0 (SNI00/BG)	35.0 - 40.0	14.0 max	28.0 - 38.0	Recommended for use in coil coating, architectural top coat, single coat and back coat applications.
SP 80651SN/BG	3.0 max	65.0 +/- 1.0 (SNI50/BG)	35.0 - 40.0	8.0 max	30.0 - 40.0	Suitable for coil coating primer and general industrial stoving enamels.
SP 80654SN/BG	2.0 max	65.0 +/- 1.0 (SNI50/BG)	30.0 - 35.0	8.0 - 14.0	35.0 - 45.0	Used to formulate coil coating top coats.
SP 80657SN/BG	2.0 max	65.0 +/- 1.0 (SNI50/BG)	30.0 - 35.0	5.0 max	40.0 - 50.0	Super durable, no loss of gloss and no yellowing in QUV.
SP 80661XL	2.0 max	66.0 +/- 1.0 (Xylene)	80.0 - 90.0	15.0 - 20.0	10.0 - 15.0	High hardness, very good adhesion, flexibility and good CAB compatibility.
SP 80702XL	2.0 max	70.0 +/- 1.0 (Xylene)	120.0 - 130.0	10.0 max	8.0 - 12.0	Suitable for industrial stoving including coil top coat-exterior/ interior applications.
SPC 80501SN/DBE	2.0 max	50.0 +/- 1.0 (SNI50/DBE)	35.0 - 40.0	8.0 max	8.0 - 16.0	Can coating, overprint varnish, base coat for decoration application.
SPC 80551SN/PMA	2.0 max	55.0 +/- 1.0 (SNI50/PMA)	50.0 - 55.0	3.0 max	45.0 - 55.0	Can coating, good hardness and flexibility.
SPC 80601SN	2.0 max	60.0 +/- 1.0 (SNI50)	65.0 - 75.0	10. max	12.0 - 20.0	Can coating, excellent flexibility and forming properties.





## Reactive Polyamides

- For ship building industry, potting, casting, encapsulation, maintenance and marine coatings
- Good color, low viscosity, water and corrosion resistance, light stability and long pot life



## Reactive Polyamines

- For industrial flooring, tank linings, solvent free coatings and adhesive for concrete.
- Modified low viscosity amine curing agent used in combination with liquid epoxy for cold curing and ambient temperature.



## Epoxy Resins

Products	Color/ Gardner	% NVM (Volatile/ solvent)	Viscosity B/F (@ 25°C) / Ps	Epoxy value (Eq/Kg)	Epoxy Equivalent Weight (EEW)	Description / Uses
HE 175071XL	1.0 max	75.0+/-1.0	100.0 – 140.0	2.0 – 2.2	450.0 – 500.0	For surface coatings, casting, tanks and pipe coatings, adhesive coatings, masonry and pool coatings. Suitable for curing with hardeners such as HP 170115XL or HP 100042

# Reactive Polyamides

Products	Color Gardner	% NVM (Volatile/solvent)	Viscosity B/F (@ °C) / mPa.s	Amine value (mg KOH/gm)	AHEW (Calca)	Recommended loading pph of liquid Epoxy EEW-200	Description / Uses
HP 100125	8.0 max	-	700.0 – 900.0 (75°C)	340.0 – 375.0	~ 130.0	50.0 – 70.0	Ship building industry, potting, casting, encapsulation, maintenance and marine coatings. Good color, low viscosity, water and corrosion resistance, light stability and long pot life.
HP 100140	8.0 max	-	300.0 – 600.0 (75°C)	370.0 – 400.0	~ 95.0	40.0 – 60.0	Synthetic flooring, tank and pipe lining, metal and plastic adhesives, maintenance coatings. Moderate viscosity and long pot life. Good pigment and substrate wetting, good adhesion, chemical and corrosion resistance.
HP 100140LV	8.0 max	-	2400.0 – 4000.0 (25°C)	380.0 – 420.0	~ 95.0	50.0 – 60.0	Synthetic flooring, tank and pipe lining, metal and plastic adhesives, maintenance coatings. Low viscosity and long pot life. Good pigment and substrate wetting, good adhesion, chemical and corrosion resistance.
HP 100115	11.0 max	-	500.0 – 750.0 Ps (40°C)	210.0 – 250.0	~ 240.0	80.0 – 115.0	In combination with liquid epoxy for solvent less coatings for steel, for potting, impregnation, adhesives. Construction industry and protective coatings. Low viscosity, long pot life, low isotherm, shrinkage.
HP 100115K	11.0 max	-	500.0 – 750.0 Ps (40°C)	210.0 – 250.0	~ 240.0	80.0 – 115.0	Similar to HP 100115 however exhibits good drying and excellent hardness in damp / high humid conditions.
HP 170115XL	8.0 max	70.0 +/- 1.0 (Xylene)	400.0 – 2000.0 (25°C)	165.0 – 175.0	~ 340.0	50.0 – 70.0	Surface coatings, casting, tanks and pipe coatings, adhesive coatings, masonry and pool coatings. Low viscosity, good color, water and corrosion resistance, long pot life, flexibility and impact strength.
HP 100503	11.0 max	-	350 +/- 50 (25°C)	500.0 +/- 50.0	~ 95.0	50.0 – 70.0	In combination with liquid epoxy for solvent less coatings for steel, for potting, impregnation, adhesives. Construction industry and protective coatings. Low viscosity, long pot life, low isotherm, shrinkage.
HP 160195XL	11.0 max	60.0 +/- 2.0 (Xylene)	3000.0 – 6000.0 (25°C)	240.0 – 270.0	~ 240.0	45.0 (Solids)	It has excellent compatibility with liquid epoxy suitable for low VOC coatings. Extremely fast drying, corrosion resistance and good adhesion to different substrates.
HP 100350	10.0 max	-	90.0 – 150.0 (25°C)	365.0 – 395.0	~ 95.0	50.0	Lower viscosity compared to HP 100140. High imidazoline content and longer pot life.
HP 100960	12.0 max	-	200.0 – 400.0 (25°C)	360.0 – 380.0	~ 95.0	48.0	Specially designed for liquid epoxy suitable for casting, potting, impregnation, adhesives and solvent less coatings.
HI 100100	14.0 max	-	2.0 – 3.5 (25°C)	180.0 – 210.0	90.0 % minimum imidazoline content	-	Excellent corrosion resistance inhibitor performs at low inclusion levels (10.0 – 1000.0 ppm). Suitable for use in wide range of oil field applications, particularly temporary corrosion protection.

# Reactive Polyamines / Cycloaliphatic Amines

Products	Color Gardner	Viscosity B/F (@ 25°C) / mPa.s	Amine value (mg KOH/gm)	AHEW (Calca)	Recommended loading pph of liquid Epoxy EEW-200	Description / Uses
HP 100205	2.0 max	500.0 – 700.0	260.0 – 300.0	102.0–105.0	58.0 – 60.0	Industrial floorings, tank linings, solvent free coatings and adhesive for concrete. Modified low viscosity amine curing agent used in combination with liquid epoxy for cold curing/ambient temperature.
HP 100205LV	2.0 max	50.0 – 70.0	260.0 – 300.0	102.0–105.0	58.0 – 60.0	Lower viscosity grade with HP 100205, rest all the properties match with HP 100205.
HP 100530	3.0 max	100.0 – 300.0	250.0 – 400.0	~ 93.0	48.0 – 50.0	Solvent free coatings. Self-levelling Industrial floorings, mortars, primers and adhesive for concrete. Modified low viscosity amine curing agent, water and corrosion resistance, low color and good color stability.
HP 100042	1.0 max	20.0 – 35.0	645.0 – 655.0	42.0 – 45.0	23.0 – 25.0	Construction industry systems suitable for solvent free, cold cure coatings. Coatings for corrosion, mastics, floorings, hardener for resin mortars. Excellent mechanical properties, resistance to neutral and alkaline solutions.
HP 100060	15.0 max APHA	100.0 – 140.0	445.0 – 495.0	~ 60.0	32.0	Heavy duty protective coatings, casting & encapsulation, structural adhesives & composite laminations. High temperature resistance, Excellent chemical and moisture resistance, good adhesion to metal substrates, low color stability having longer pot life.
HP 100686	10.0 max	100.0–400.0	290.0–330.0	~ 95.0	50.0 – 52.0	Economical grade compared to HP 100205, provides high mechanical build-up, rapid cure and suitable for low temperature applications.
HP 100618	1.0 max	290.0–450.0	260.0–280.0	~ 113.0	60.0 – 62.0	Suitable for high solid coatings, self-levelling floorings, mortars and grouts. Low color and good color stability, chemical resistance and high gloss.
HP 100237	3.0 max	25.0 – 75.0	300.0 – 350.0	~ 78.0	40.0 – 45.0	Suitable for ambient temperature cure, high level of mechanical stability, good corrosion resistance.
HP 100934	2.0 max	140.0 – 360.0	265.0 – 295.0	~ 95.0	45.0 – 50.0	Self leveling, pebble finish floorings, chemically resistant tank linings, mortars and grouts and decorative tile grouts.



## Homopolymers

- Homopolymer of polyvinyl acetate emulsions
- High viscosity
- For general purpose wood adhesive and construction adhesives
- Excellent bonding and film flow properties

## Copolymers

- Copolymer of VAM / VEOVA emulsions
- For interior / exterior based paints and wall putties
- Excellent bonding, scrubability, good durability and high pigment binding properties



# Homopolymers

Products	% Solid	Viscosity B/F @30°C/ Ps	pH	Particle size /microns	MFFT/ °C	Sp gravity (g/ cm3)	Description / Uses
H 1010	50.0 +/- 1.0	700.0 - 1200.0	4.0 - 6.0	0.5 - 1.2	14.0 - 15.0	1.06 +/- 0.02	Homopolymer of polyvinyl acetate emulsion. High viscosity. General purpose wood adhesive having excellent bonding, film flow properties. Used mainly in general purpose wood adhesive.
H 1030	55.0 +/- 1.0	20.0 - 50.0 @23°C	4.0 - 6.0	0.4 - 1.0	14.0 - 15.0	1.05 +/- 0.02	Homopolymer of polyvinyl acetate emulsion. Good bonding strength and remains tacky for long duration. Used in adhesive / packaging industry.
H 1030 (50%)	50.0 +/- 1.0	10.0 - 30.0	4.0 - 6.0	0.4 - 1.0	14.0 - 15.0	1.05 +/- 0.02	Homopolymer of polyvinyl acetate emulsion. Good bonding strength and remains tacky for long duration. Used in adhesive / packaging industry.
H 1035	35.0 +/- 1.0	200.0 - 400.0	4.0 - 6.0	0.5 - 1.2	14.0 - 15.0	1.06 +/- 0.02	Homopolymer of polyvinyl acetate emulsion having good film bonding strength and film properties. Used for general purpose as wood adhesive.
H 1040	40.0 +/- 1.0	250.0 - 500.0	4.0 - 6.0	0.5 - 1.2	14.0 - 15.0	1.06 +/- 0.02	Homopolymer of polyvinyl acetate emulsion having good film bonding strength and film flow properties. Used for general purpose as wood adhesive.
H 1060	60.0 +/- 1.0	150.0 - 250.0 @ 23°C	4.0 - 6.0	0.4 - 1.0	14.0 - 15.0	1.06 +/- 0.02	Homopolymer of polyvinyl acetate emulsion having excellent adhesive properties recommended for wood used in packaging industry.

# Copolymers

Products	% Solid	Viscosity B/F @30°C/ Ps	pH	Particle size /microns	MFFT/ °C	Sp gravity (g/ cm3)	Description / Uses
H 2010(50%)	50.0 +/- 1.0	700.0 - 1200.0	4.0 - 6.0	0.5 - 1.2	14.0 - 15.0	1.06 +/- 0.02	Copolymer of VAM/ VEOVA monomer with good bonding, scrubability, good durability and high pigment binding properties. Recommended for interior / exterior based paints and wall putties.
H 2020	55.0 +/- 1.0	10.0 - 40.0	4.0 - 6.0	0.3 - 0.5	14.0 - 15.0	1.05 +/- 0.02	Copolymer of VAM/ VEOVA monomer with good bonding, scrubability, good durability and high pigment binding properties. Recommended for interior / exterior based paints and wall putties.
H 2029	50.0 +/- 1.0	10.0 - 40.0	4.0 - 6.0	0.2 - 0.5	14.0 - 15.0	1.05 +/- 0.02	For VAM/ VEOVA copolymer emulsion based paint having good bonding strength, scrub resistance and alkali resistance. High pigment binding strength with good durability recommended in matt based paints.



# Viscosity Conversion Table

Poise (P)	Centipoise (cP)	Gardner Holdt (Units)	Iwata cup (sec)	Ford Cup # 3(sec)	Ford Cup # 4(sec)	Krebs (κU)	Zahn Cup # 3 (sec)	Zahn Cup # 4 (sec)	Zahn Cup # 5 (sec)	Saybolt (SSU)
0.10	10.0	A4			5					60
0.15	15.0	A3			8					80
0.20	20.0		5		10					100
0.25	25.0	A2	8	15	12					130
0.30	30.0	A1	11	19	14					160
0.40	40.0	A	14	25	18					210
0.50	50.0		16		19	30				
0.60	60.0	B	19	33	25	33				320
0.70	70.0		21	32	23	35				
0.80	80.0	C	25	41	26	37				430
1.00	100	D	31	50	31	40	12	10		530
1.20	120	E	38	58	35	43	14	11		580
1.40	140	F	44	66	45	46	16	13		690
1.60	160	G	49	67	50	48	18	14		790
2.00	200	H	63	83	55	52	23	17	10	1000
2.20	220	I	69		62	54	25	18	11	1100
2.40	240	J	76		70	56	28	20	12	1200
2.80	280	K	88	113	76	59	32	22	14	1380
3.0	300	L	96	120	82	60	34	24	15	1475
3.2	320	M		130	90		36	25	16	1530
3.4	340	N			98		39	26	17	1630
3.6	360	O			103	62	41	28	18	1730
4.0	400	P			107	64	46	30	20	1950
4.4	440	Q			116		50	33	22	2160
4.6	460	R			125	66	52	34	23	2270
5.00	500	S			133	68	57	37	25	2480
5.50	550	T			146	69	63	40	27	2660
6.00	600	U			167	71	68	44	30	2900
7.00	700					74		64	45	
8.00	800					77			49	
9.00	900	V			199	81			64	4300
10.0	1000	W			270	85				4600
12.0	1250	X				95				6000
15.0	1500									
17.5	1750	Y				101				8000
20.0	2000									
23.0	2300	Z				105				10750
25.0	2500	Z1				114				11600
30.0	3000					121				
35.0	3500	Z2				129				16500
40.0	4000					133				
45.0	4500	Z3				136				
50.0	5000									
60.0	6000	Z4								21000
70.0	7000									
80.0	8000									
90.0	9000									
100	10K	Z5								46500
150	15K	Z6								69500
500	50K	Z7-Z8								



# Abbreviations

NY	Non - Yellowing
WS	White Spirit
XL	Xylene
LV	Low Viscosity
HV	High Viscosity
BA	Butyl Acetate
SN	Solvent Naptha
PMA	Methoxy Propyl Acetate

CA	Cellosolve Acetate
BG	Butyl Glycol
XBP	Xylene/Butyl Acetate /PMA
NA	Non Accelerated
PA	Pre Accelerated
PAB	Pre Accelerated Boat Grade
DBE	Di Basic Ester
XSB	Xylene/Solvent Naptha/Butyl Acetate







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