

Applications:

- High Quality Coating and Gel Coats
- Structural Items
- Top coat

Properties:

- Medium reactivity
- Good laminating & wetting properties
- Good corrosion resistance
- Low water absorption and Outstanding resistance to hydrolysis

Composition Of The Resin

FARAPOL I 214 is an Unsaturated Polyester Resin based on Isophthalic Acid and Neopentyl Glycol, dissolved in and cross linked with Styrene having capability to be used as casting resin for producing gel coat and top coat.

Compatibility:

Avoid storing the resin along with Metallic Driers and Peroxides in the same area.

Safety:

Material Safety Datasheets of the product is available on demand.

Product Data¹:

➤ Viscosity Brookfield(cps, @25°C)	430-460
➤ Acid Value (mgrKOH/gr Resin)	20 ± 2
➤ Color (Gardner)	<2
➤ Specific Gravity	1.11-1.13
➤ Solid Content	63 ± 1
➤ Gel Time(minute, @25°C)	13 ± 1
➤ Peak Temperature (°C @25°C)	150-180

Storage Conditions:

FARAPOL I 214 is a product sensitive to temperature, light & oxidation. Hence should be stored indoors in dry place at a temperature between 5 and 25°C. Keep always in the original, unopened and undamaged containers. Avoid to keep material Exposed to sunlight.

Stability:

On storage under above mentioned conditions, the stability for FARAPOL I 214 is 6 months.

Supply Modes:

Resin is Supplied in 200 Kg net. steel Drums and Bulk Road Tankers

¹ Gel Time, Acid Value, and Viscosity can be adjusted as per customer requirements.

Gel Time Behavior of Resin at Different Temperature:

@18°C	23-27 '
@25°C	12-14 '
@30°C	8-10 '

Gel time measuring formulation used: (Cobalt Octoate Farapol C 901 1%- 1.0phr, Butanox M50 1.0 phr).

Mechanical Properties of Clear Cured Castings:

PROPERTIES²	TEST VALUE	METHOD
Barcol Hardness	>40	ASTM D2583
Tensile Strength (MPa)	>75	ISO 527-2
Elongation at Break	>3	ISO 527-2
Heat Distortion Temperature (°C)	>80	ISO 75-2
Flexural Strength	>130	ISO 178

*Materials used for curing are: (Cobalt Octoate Farapol C 901 1%- 1.0 phr, Butanox M50 1.0 phr).
Curing time is 24 Hrs at room Temperature and 3 Hrs at 80°C.*

Water Absorption & Linear Shrinkage:

PROPERTIES	TEST VALUE	METHOD
Water Absorption (%)	≈ 0.30	ISO 62- Test Method-1
Linear Shrinkage (%)	≈ 1.4	Internal Method

This test is done on linear sample with dimensions (1 cm × 1 cm × 100 cm).

Note: The laboratory data and results presented herein were obtained through the use of specific methods mentioned and all necessary precautions, high quality lab reagents, and efficient equipment's by FARAPOL JAM CHEMICAL INDUSTRIES. FARAPOL does not guarantee duplication of such results by third parties.

Connect with us:

Tel: +98 21 88875228

Fax: +98 21 88673951

Site: www.farapol.com

Email: info@farapol.com

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