

## Applications:

- Good color laminates or castings
- Slate / Stone
- Polymer concrete

## Properties:

- High filler loading
- High HDT
- Rigid polyester resin
- Good stiffness

## Composition Of The Resin:

Slate/Stone/High Filler Unsaturated Polyester Resin of Farapol is based on orthophthalic anhydride and standard glycols, dissolved in and cross linked with Styrene having capability to be used as resin for producing artificial stone and polymer concrete.

**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 Data<sup>1</sup>:

➤ Viscosity Brookfield(cps, @25°C)	950-1050
➤ Acid Value(mgrKOH/gr Resin)	35-42
➤ Color(gardner)	1
➤ Specific Gravity	1.12-1.14
➤ Solid Content(%)	65±2
➤ Gel Time (minute @25°C )	15-20

## Storage Conditions:

Slate/Stone/High Filler Unsaturated Polyester Resin of Farapol 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 keeping material Exposed to sunlight.

## Stability:

On storage under above mentioned conditions, the stability for Slate/Stone/High Filler Unsaturated Polyester Resin of Farapol is 6 months.

## Supply Modes:

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

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



## Gel Time Behavior of Resin at Different Temperature:

@18°C	23-32 ´
@25°C	15-20 ´
@30°C	10-15 ´

*Gel time measuring formulation used: (Cobalt Octoate Farapol C 1%- 1.2 phr, Akperox A60 1.0 phr).*

## Mechanical Properties of Clear Cured Castings:

PROPERTIES	TEST VALUE	METHOD
Barcol Hardness	>45	ASTM D2583
Tensile Strength (MPa)	>40	ISO 527-2
Elongation at Break	2	ISO 527-2
Heat Distortion Temperature (°C)	>100	ISO 75-2
Flexural Strength (MPa)	>90	ISO 178

*Material used for curing are: (Cobalt Octoate Farapol C 1%- 1.2 phr, Akperox A60 1.0 phr). Curing time is 24 Hrs at room Temperature and 3 Hrs at 100 °C.*

## Water Absorption & Linear Shrinkage:

PROPERTIES	TEST VALUE	METHOD
Water Absorption (%)	≈ 0.20	ISO 62- Test Method-1
Linear Shrinkage (%)	≈ 1.2	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

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