

Technical Data Sheet

Farapol Jam Chemical Indus. Co.

FARAPOL O 132

Product Description Farapol O 132 is a modifier resin, for plasticizing and flexibility of unsaturated polyester resins, based on Orthophthalic anhydride and standard glycols, dissolved in and cross-linked with Styrene Monomer that is added into polyester resins, gelcoat and topcoat for obtaining more flexible products.

Applications and Use This resin can be used as a property-modifying additive in all types of unsaturated polyester resins and its derivatives. It can improve resilience and impact strength and is compatible with the most general-purpose and Isophthalic resins.

Certificates and Approvals Farapol O 132 is synthesized from raw materials listed in FDA regulation Title 21 CFR 177.2420. Farapol Jam Chemical Industrial Company carries out this resin's production, quality control, and distribution in compliance with ISO 9001, 14001, 45001, 10002, 10004, 10015, and 17065 standards.

Typical Liquid Resin Properties

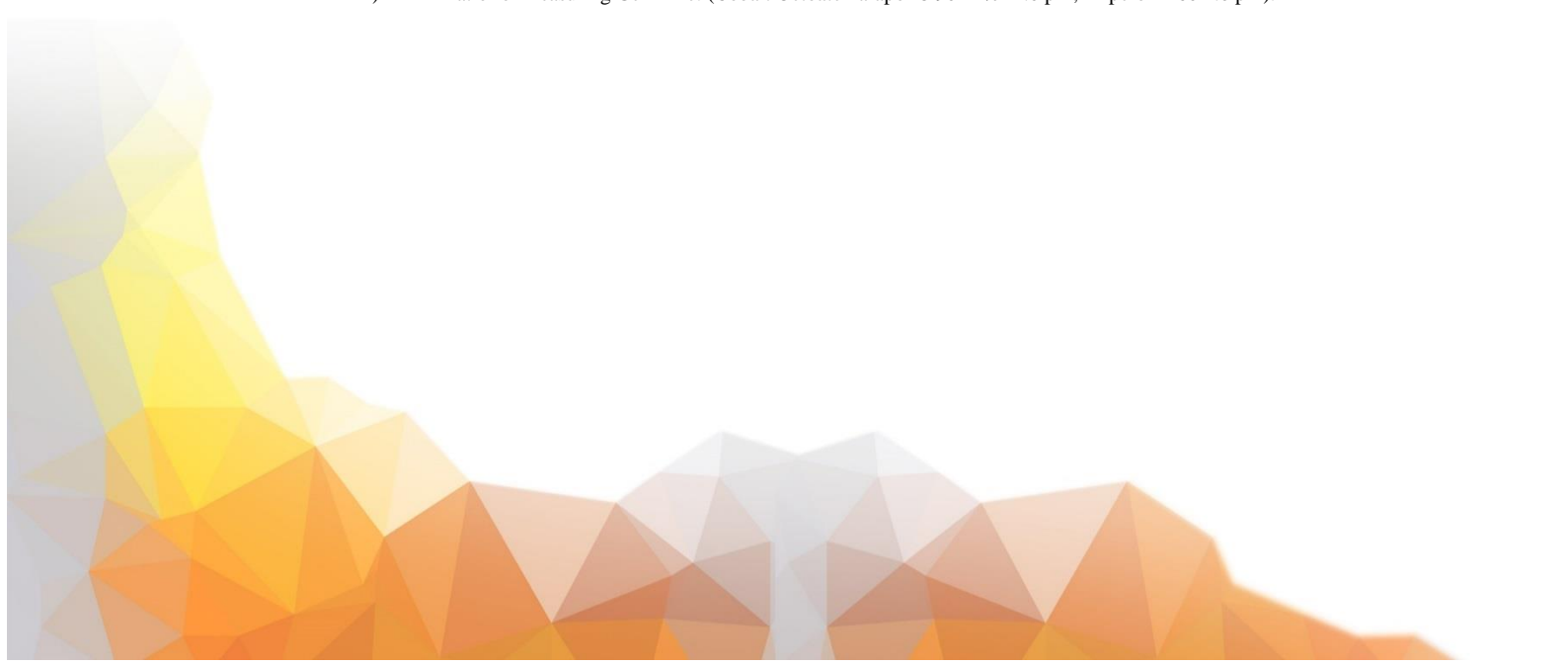
<i>Property @ 25 °C</i>	<i>Unit</i>	<i>Specification</i>	<i>Method</i>
Viscosity Brookfield ¹	cps	500 - 650	ISO 2555
Acid Value	mgKOH/g	20-30	ASTM D 1639
Solid Content	%	70 – 73	ISO 3251
Color	Gardner	Max 2	ASTM D 1544
Specific Gravity	relative	1.15-1.18	ISO 2811
Gel Time ¹	minute	14 - 19	ASTM D 2471

1) Gel Time and Viscosity can be adjusted as per customer requirements.

Gel Time Behavior of Resin²

<i>Temperature (°C)</i>	<i>18</i>	<i>25</i>	<i>30</i>
<i>Gel Time (minute)</i>	20-30	14-19	10-13

2) Mix ratio for measuring Gel Time: (Cobalt Octoate Farapol C 901 1%- 1.0 phr, Akperox A60 1.0 phr).



Typical Casted Resin Properties³

<i>Property</i>	<i>Unit</i>	<i>Specification</i>	<i>Method</i>
Tensile Strength	MPa	10-15	ISO 3268, ASTM D638, ISO 527-2&4
Elongation at Break	%	60-70	ISO 3268, ASTM D638, ISO 527-2&4
Tensile Modulus	GPa	NA	ISO 3268, ASTM D638, ISO 527-2&4
Flexural Strength	MPa	NA	ISO 178/ASTM D 790
Flexural Modulus	GPa	NA	ISO 178/ASTM D 790
Heat Deflection Temperature (HDT)	°C	NA	ISO 75-2 Test Method A
Barcol Hardness	Barcol	NA	ASTM D 2583
Water Absorption	%	≈ 0.50	ISO 62- Test Method 3
Linear Shrinkage ⁴	%	≈ 1.0	Internal method

- 3) Materials used for curing are: (Cobalt Octoate Farapol C 901 1%- 1.0 phr, Akperox A60 1.0 phr). Curing Time is 24 hrs at Room Temperature and 3 hrs at 80 °C.
 4) This test has been done on the specimen with linear dimensions (1 cm × 1 cm × 100 cm).

Handling, Storage and Stability

FARAPOL O 132 is a product that is sensitive to temperature, light, and oxidation. Hence, it should be stored indoors in a 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. On storage under the above-mentioned conditions, the shelf life for FARAPOL O 132 is 6 months.

Healthy and Safety

Avoid storing the resin along with Metallic Driers and Peroxides in the same area. Safety Datasheets of the product are available on demand. The user is fully responsible for reviewing the material’s Safety Data Sheet (SDS) and understanding proper handling procedures prior to using the product.

Packaging

FARAPOL O 132 is supplied in 200 Kg steel barrels, IBC tanks and bulk road tankers.

Notice

The information contained herein is provided in good faith and is with the best of our accurate knowledge, but we assume no liability for its accuracy or completeness. Therefore, the buyer is advised to determine the suitability of this product for the intended use. We retain the right to make any changes according to technological progress or further developments. Please note that variations in testing conditions across different laboratories may result in discrepancies, and a tolerance of up to 5% in test results should be expected.

Farapol Jam Company reserves the right to modify the information in this document at its discretion. The latest version available on the Farapol website is considered valid, and any previous versions are void.

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