

Technical Data Sheet

Farapol Jam Chemical Indus. Co.

FARAPOL O 135-A

Product Description Farapol O 135 is an Amine-accelerated Unsaturated Polyester Resin based on Orthophthalic Anhydride and standard Glycols, dissolved in and cross-linked with Styrene Monomer. The product has high adhesion, high filler acceptance, high chemical resistance and It is a fast cure unsaturated polyester resin. Farapol O 135-A is a highly reactive unsaturated polyester resin that cures at low temperatures, even as low as 0 °C, producing transparent and hard polymers.

Applications and Use This resin is specially designed for producing mastics used in all types of marbles, stones and granites. The mastics can be used for filling pores and cracks and repairing surface of the stones.

Certificates and Approvals Farapol O 135 is synthesized from raw materials listed in FDA regulation Title 21 CFR 177.2420. Farapol Jam Chemical Industrial Company carries out the production, quality control, and distribution of this resin 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	290 - 330	ISO 2555
Acid Value	mgKOH/g	40-44	ASTM D 1639
Solid Content	%	65 - 67	ISO 3251
Color	Gardner	Max 3	ASTM D 1544
Specific Gravity	relative	1.11-1.13	ISO 2811
Gel Time ²	minute	18 - 20	ASTM D 2471

- 1) Gel Time and viscosity can be adjusted as per customer requirements.
- 2) Mix ratio for measuring Gel Time: (1.0 phr Benzoyl Peroxide 50%).



Typical Casted Resin Properties³

<i>Property</i>	<i>Unit</i>	<i>Specification</i>	<i>Method</i>
Tensile Strength	MPa	Min 70	ISO 3268, ASTM D638, ISO 527-2&4
Elongation at Break	%	Min 3.0	ISO 3268, ASTM D638, ISO 527-2&4
Tensile Modulus	GPa	Min 3.0	ISO 3268, ASTM D638, ISO 527-2&4
Flexural Strength	MPa	Min 130	ISO 178/ASTM D 790
Flexural Modulus	GPa	Min 4.0	ISO 178/ASTM D 790
Heat Deflection Temperature (HDT)	°C	Min 60	ISO 75-2 Test Method A
Barcol Hardness	Barcol	Min 40	ASTM D 2583
Water Absorption	%	≈ 0.30	ISO 62- Test Method 3
Linear Shrinkage ⁴	%	≈ 1.8	Internal method

- 3) Materials used for curing are: (1.0 phr Benzoyl Peroxide 50%). 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 135 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 conditions mentioned above, the shelf life for FARAPOL O 135 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 135 is supplied in 200 Kg steel barrels and IBC tanks.

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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