

Technical Data Sheet

Farapol Jam Chemical Indus. Co.

FARAPOL AV 301

Product Description FARAPOL AV 301 is a pre-accelerated, special semi-flexible vinyl ester based, and thixotropic bonding paste with no filler content. It has special formulation optimized for effective bonding of composite parts. It can be used in marine, construction, GRP Pipe Installation, automobile, etc. In order to bond the composite to metals or wood, it must be tested and evaluated before use by the consumer.

Applications and Use FARAPOL AV 301 is a modified Bis-phenol A based Epoxy Vinyl Ester Resin bonding paste designed for use in marine, construction, GRP Pipe Installation, automobile, etc. Such applications include panels, inserts, internal frames, ribs, internal core materials and composite constructions FARAPOL AV 301 provides high shear-strength bonded joints without the need for mechanical fixings.

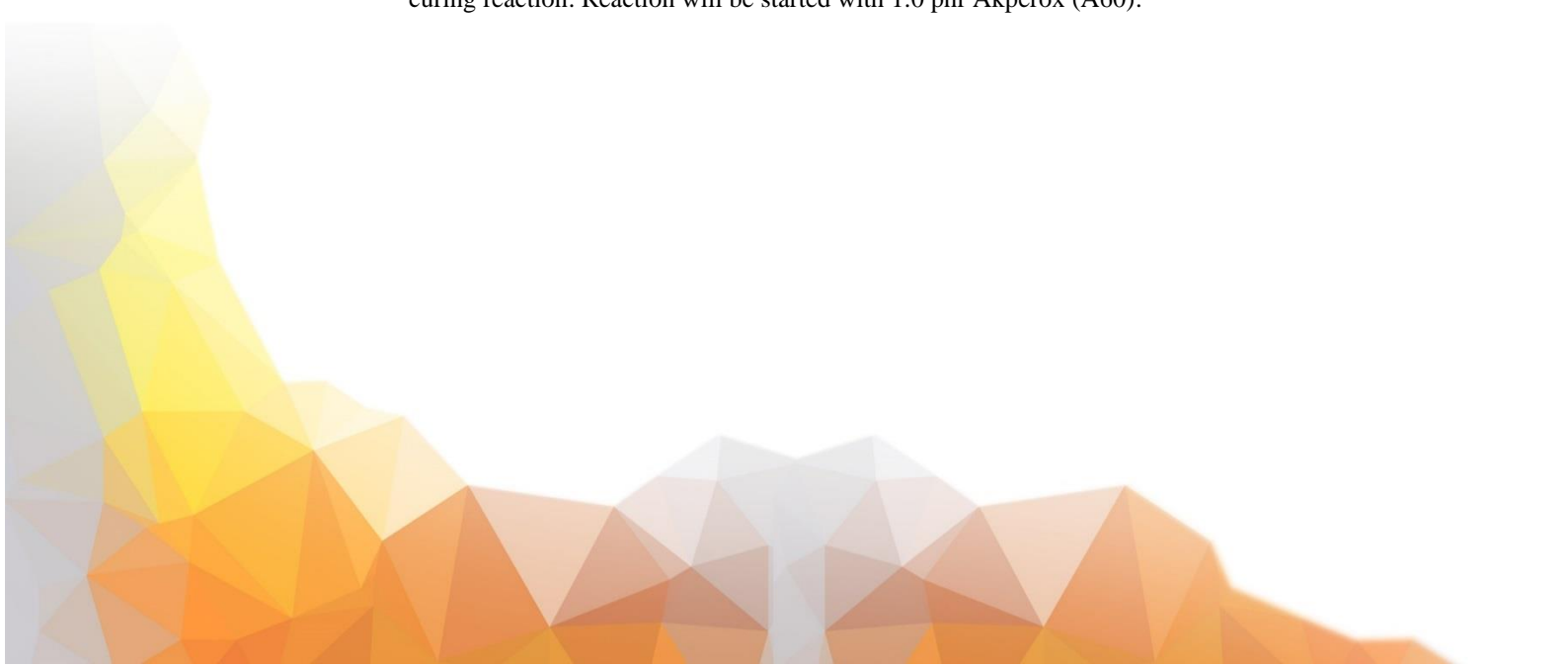
Certificates and Approvals Farapol Jam Chemical Industrial Company carries out the production, quality control, and distribution of this resin in compliance with ISO 9001, 14001, 45001, 10002, 10004, 10015, and 17065 standards.

Typical Liquid Resin Properties	<i>Property @ 25 °C</i>	<i>Unit</i>	<i>Specification</i>	<i>Method</i>
	Viscosity Brookfield ¹ (Spindle 4, RPM 6)	cps	250 - 350	ASTM D 2196
	Gel Time ¹	minute	15 - 20	ASTM D 3056
	Lab Shearing (FRP-FRP)	MPa	10.8	ISO 4587

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>	27-32	17-21	9-12

2) FARAPOL AV 301 is supplied pre-accelerated, requiring only the addition of catalyst to start the curing reaction. Reaction will be started with 1.0 phr Akperox (A60).



NOTICE IN USE

1. Before applying FARAPOL AV 301, it is advised to remove the loose material, rust and dirt by sand-blast in order to achieve maximum adhesion. The metal surface should achieve Sa 2 ½ (white metal).
2. FARAPOL AV 301 should be applied on cleaned surface. Careful check is required to make sure the substrate surface is free of dust, dirt and grease which will reduce adhesion.
3. The gel time of FARAPOL AV 301 is affected primarily by catalyst concentration and temperature. The variations in cure characteristics may be caused by the variations in catalyst, humidity, pigment, fillers and other additives. It is recommended that the fabricators check the cure characteristics with a small quantity of adhesive before proceeding with bulk production.
4. FARAPOL AV 301 contains an organic solvent (styrene). Keep away from heat, sparks and flames.
5. FARAPOL AV 301 is a potentially reactive chemical. Please store it in the dark and keep it away from heat and direct sunshine.
6. Containers, not completely emptied must be closed immediately after use.

Handling, Storage and Stability

FARAPOL AV 301 is a product 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 AV 301 is 3 months.

Healthy and Safety

Avoid storing FARAPOL AV 301 along with Metallic Driers and Peroxides in the same area. Safety Datasheets of the product are available on demand. The user is responsible to familiar with the material handling and safety datasheet before using the product.

Packaging

FARAPOL AV 301 is supplied in 5 Kg and 20 Kg Buckets.

Notice

The information contained herein is provided in good faith and is to the best of our knowledge accurate, 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.

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