

Applications:

- Kitchen counter-tops Gel
- Washbasin & sanitary ware
- Chemical Tanks and Crafts
- Coating
- Good chemical resistance
- Marin Industries
- Transport industries

Description of The Gel Coat:

FARAPOL G 4301 is a gel coat based on Farapol V 301 that is an Epoxy Vinyl Ester Resin. This gel coat is thixotropic, pre-accelerated, Color or Colorless, Hand Lay Up or Spray Up (based on customer request) and high advance exterior use.

FARAPOL G 4301's basic properties are high resistance to chemicals, scratch and impact.

Compatibility:

Avoid storing the Gelcoat 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

Brush Type:	5000 ± 400 cps
Spray Type:	1500 ± 300 cps
- Thixotropic Index

Brush Type:	5.5 – 6.0
Spray Type:	4.5 – 5.0
- Gel Time @25°C 20 ± 5 min

★ *Gel Time Measured with 0.6 phr DMA 10% + 1.0 Phr Akperox A60*

Storage Conditions:

FARAPOL G 4301 is a product sensitive to temperature, light & oxidation. Hence should be stored indoors in dry place at a temperature between 5 and 20°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 G 4301 is 3 months.

Supply Modes:

Resin is Supplied in 20 and 200 Kg net steel barrel.

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



Gel Time Behavior of Resin (Farapol V 301) used in Gel Coat @ Different Temperature:

@18°C	27-30´
@25°C	19-21´
@30°C	10-12´

Gel time measuring formulation used: (Cobalt Octoate Farapol C 901 1%- 1.0 phr, DMA 10% -0.5 phr, Akperox A60 1.0 phr). These tests have been done on 300±25 cps).

Mechanical Properties of Cured Resin (FARAPOL V 301):

PROPERTIES	TEST VALUE	METHOD
Tensile Strength (MPa)	>80	ISO 527-2
Elongation at Break	>4	ISO 527-2
Heat Distortion Temperature (°C)	>105	ISO 75-2
Flexural Strength	>120	ISO 178
Barcol Hardness	>35	ASTM D2583

Materials used for curing are: (Cobalt Octoate C 901 1%- 1.0 phr, DMA 10%-0.5 phr, Akperox A60 1.0 phr). These tests have been done on 300±25 cps. Curing time is 24 Hrs at room Temperature, 2 Hrs at 80°C and 1 Hrs at 120°C.

Water Absorption & Linear Shrinkage:

PROPERTIES	TEST VALUE	METHOD
Water Absorption (%)	≈ 0.22	ISO 62- Test Method-1
Linear Shrinkage (%)	≈ 1.5	Internal Method

This test is done on linear sample with dimensions (1 cm × 1 cm × 100 cm). These tests have been done on 300±25 cps.

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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