

Applications:

- Kitchen counter-tops Gel
- Chemical Tanks and Crafts
- Coating
- Marine industries
- Transport industries

Description of The Gel Coat:

FARAPOL G 4214 is a gel coat based on Farapol I 214 that is an Isophthalic acid and Neopantyl Glycol based, excellent water and weather resistance. 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 4214'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:	3800 ± 400 cps
Spray Type:	1500 ± 200 cps
- Thixotropic Index

Brush Type:	4.5 – 6.0
Spray Type:	4.5 – 5.0
- Gel Time @25°C 20 ± 5 min
- ★ *Gel Time Measured Akperox A60 1.0 phr*

Storage Conditions:

FARAPOL G 4214 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 4214 is 3 months.

Supply Modes:

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

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

Gel Time Behavior of Resin (Farapol I 214) at Different Temperature:

@18°C	25-30 ´
@25°C	16-20 ´
@30°C	8-14 ´

Gel time measuring formulation used: (Cobalt Octoate Farapol C 901 1%- 1.0 phr, Akperox A60 1.0 phr).

Mechanical Properties of Cured Resin (FARAPOL I 214):

<i>PROPERTIES</i>	<i>TEST VALUE</i>	<i>METHOD</i>
Tensile Strength (MPa)	>80	ISO 527-2
Elongation at Break	>3	ISO 527-2
Flexural Strength	>130	ISO 178
Heat Distortion Temperature (°C)	>85	ISO 75-2
Barcol Hardness	>40	ASTM D2583

*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.*

Water Absorption & Linear Shrinkage:

<i>PROPERTIES</i>	<i>TEST VALUE</i>	<i>METHOD</i>
Water Absorption (%)	≈ 0.30	ISO 62- Test Method-1
Linear Shrinkage (%)	≈ 1.4	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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