

Applications:

- Kitchen counter-tops Gel
- Chemical Tanks and Crafts
- Coating
- Marin

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. 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:

- | | Brush Type |
|------------------------|-------------------|
| ➤ Viscosity Brookfield | 4500± 200 cps |
| ➤ Thixotropic Index | 5.80 ± 0.2 |
| ➤ Gel Time @25°C | 20 ±5 min |

★ *Gel Time Measured Butanox M50 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 20kg 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, Butanox M50 1.0 phr). These tests have been done on 300±25 cps.

Mechanical Properties of Cured Resin (FARAPOL I 214):

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

Materials used for curing are: (Cobalt Octoate Farapol C 901 1%- 1.0 phr, Butanox M50 1.0 phr). These tests have been done on 300±25 cps. 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). 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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