

GELGRAPH GELCOAT ISO AIRLESS

1. DESCRIPTION

Gelgraph Gel Coat ISO Airless is a gel coat based on isophthalic unsaturated polyester NPG with graphene, designed for industrial and high-performance applications. Its advanced formulation provides high mechanical, chemical and weather resistance, excelling in applications where durability and protection are required.

2. PROPERTIES

- Excellent chemical resistance: withstands exposure to aggressive environments.
- Excellent mechanical resistance: provides a hard and tough coating.
- Adapted viscosity: allows application by brush, roller or spray (airless).
- Thermal resistance: good stability at high temperatures.
- High resistance to UV, hydrolysis and ageing.
- Excellent adhesion and flexibility.
- Low loss of mechanical properties at high temperatures.

3. APPLICATIONS

- Marine industry: coatings for boats and marine structures.
- Automotive industry: durable and impact resistant finishes.
- Industrial coatings: surface protection in aggressive environments.
- Glass fibre reinforced polyester moulds and parts.
- Use for finishing shower trays.

4. TECHNICAL CHARACTERISTICS

APPEARANCE	White liquid
EXOTHERMIC PEAK TEMPERATURE (IN 45 MIN)	120 – 175 °C
GEL TIME [25°C] (MIN)¹	7 – 10
VISCOSITY BROOKFIELD [H3, 25°C] (CP)	1000 - 2000

(1) 100/0.225 Co/1.2 PMEK

5. MECHANICAL CHARACTERISTICS

	APPLY STANDARD	VALUE
FLEXURAL MODULUS (MPA)	UN 14125	6 000 – 8 000
FLEXURAL STRENGTH (MPA)	UN 14125	40 – 80
MAXIMUM DEFLECTION (MM)	UN 14125	0.60 – 1.20
TENSILE MODULUS (MPA)	UN 527	4 500 – 5 000
TENSILE STRENGTH (MPA)	UN 527	25 – 35
ELONGATION AT BREAK (MM)	UN 527	0.55 – 0.75

Mechanical properties of catalyzed gel coat.

6. STORAGE AND PACKAGING

- The product should be stored in a dry place at a temperature not exceeding **25°C**.
- The expiry date is **6 months** under the conditions mentioned above.
- Generally, the products will be supplied in cans and drum format.
- For other quantities and/or packaging: contact Graphenano Composites Sales Department.