

REINFORGRAPH 901 PLUS PREMIUM

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VERSION: REV 00

1. DESCRIPTION

Bisphenol A type epoxy vinilester resin with graphene and other loads, of high viscosity and low reactivity. It is pre-accelerated with cobalt salts. It provides excellent corrosion resistance to a broad range of organic and inorganic acids, alkalis, oxidizing chemicals, and salt solutions, etc. It also provides very good mechanical strength such as tensile and flexural while incorporated as reinforcement onto the ceramic pieces, it can increase the maximum strength of the final pieces with very good adhesion.

2. PROPERTIES

- **High mechanical properties.**
- **High chemical resistance.**
- **Excellent corrosion resistance.**
- **Very good adhesion and High maximum strength in ceramic pieces.**

3. APPLICATIONS

- It is specially designed as resin reinforcement for ceramic.
- It has good adhesion and very low linear and volumetric shrinkage.
- The percentage of mek peroxide to be added is between 1% and 1.2%, although it can be increased to 2% to reduce the gel time.
- The application can be manual or by machine.
- Can be used in ceramic industry.

4. TECHNICAL CHARACTERISTICS

Appearance	Dark liquid
Specific Gravity	1.8 - 2.0
Gel time (25°C) ⁽¹⁾	40 -45 min
Viscosity brookfield (SPL3V21 , 25°C)	13500 – 14000 cps

(1) 100/0.3 CO/1.5 P MEK temperature: 25°C

5. MECHANICAL CHARACTERISTICS

Flexural modulus	14938,66 MPa
Flexural strength	40,87 MPa
Maximum deflection dL	0,29 mm
Tensile modulus	9250 MPa
Tensile strength	29,5 MPa
Elongation at break	0,31 %

Mechanical properties of the catalysed resin

6. MECHANICAL CHARACTERISTICS IN CERAMIC REINFORCEMENT

- Ceramic Sample Reference (100x17 mm): Thickness 3,4 mm; Maximum Strength **101 N**; Mass 13,3 g
- Ceramic Sample + **Reinforgraph** resin (0.5 mm): Thickness 3,9 mm; Maximum Strength **112 N**; Mass 15,3 g
- Ceramic Sample + **Reinforgraph** resin (1.1 mm): Thickness 4,5 mm; Maximum Strength **134 N**; Mass 17,9 g

7. STORAGE AND PACKAGING

- The product should be **stored in a dry place** at a temperature not exceeding **25°C**.
- The expiry date is **4 months** under these conditions.
- The existing containers are **jerrycans, berrels, IBC**.
- For other quantities: **contact us**.