

1 CHARACTERISTICS

Gel coat GC 206 is based on a vinyl ester resin. The gel coat is suitable for polyester laminate, mould making. The product is developed for brush application.

- Thixotropic and pre-accelerated.
- Good handle ability.
- High quality with very good mechanical properties.
- High brightness. The brightness measured by our laboratory : 95 with a gloss meter with a 60 degrees angle.
- The GC 206 is a good tools gel coat due to the high temperature resistance and the chemical resistance, especially for the short circle application (RTM for example) or molding of concrete polyester.

2 PROPERTIES OF LIQUID GEL COAT

| Brookfield viscosity (ISO 2555 - 20°C – sp6) | 5 rpm : 250 - 350 Poise 50 rpm : 60 - 80 Poise | | |
|--|---|--|--|
| Specific gravity (ICON 012) | 1 - 1.10 g/cm ³ | | |
| Geltime (ICON 002) (20°C – 2% MEKP on 100 g) | 10 - 14 minutes | | |
| Non volatile content (ICON 003) | 66 - 68% | | |

3 MECHANICAL PROPERTIES OF CAST GEL COAT

| Flexural strength* (ISO 178) | 155.2 MPa | | |
|---|-----------|--|--|
| Flexural modulus* (ISO 178) | 3.44 GPa | | |
| Tensile strength* (ISO 527) | 38.58 MPa | | |
| Elongation at break* (ISO 527) | 2.10% | | |
| Temperature of deflection under load (HDT)* (ISO 75-3) | 100°C | | |
| Barcol hardness* | 45 | | |

* Mechanical tests carried out on 5 specimens of cast gel coat GC 206 catalysed with 2% of MEKP M50, curing time at room temperature for 24 hours, then post cured for 3 hours at 80°C.

4 GEL TIME ACCORDING TO THE TEMPERATURE

Gel time done on 100 g

| Temperature | 1% MEKP M50 | 1.5% MEKP M50 | 2% MEKP M50 | 2.5% MEKP M50 |
|-------------|-------------|---------------|-------------|---------------|
| 20°C | 50 min | 31 min | 14 min | 10 min |
| 25°C | 30 min | 18 min | 10 min | 7 min |
| 30°C | 23 min | 14 min | 7 min | 6 min |
| 35°C | 14 min | 7 min | 6 min | 4 min |

IMPORTANT

All of the results obtained according to trials in our laboratory. However, we don't be responsible of manufactured parts with the GC 206, if the application conditions specified are not respected.

It is imperative that the user must also ensure that his application and his process are appropriate for this product to be used. We hereby the conformity of our products with the above specifications. We cannot be responsible for any damage caused by misuse of this product or use of the product for an application not covered in the design.



5 VERSIONS

Gel coat GC 206 is available in the following colours: blue 5900, green 6900, black 9900, orange 2900 or clear 9901. Also available in spray version GC 207.

6 RECOMMENDATIONS BEFORE USE

- Mix the peroxide well, never put under 1% or over 2.5%.
- We recommend to catalyse with 2% MEKP M50.
- Never apply the GC 206 at temperature under 18°C.

• Apply 700 – 800 µm layers in 2 passes :

- The first layer of GC 206 must have a thickness of 400 500 µm.
- When the first layer is cured, then apply 300µm of GC 206
- Avoid excess thickness especially in angles. We recommend the application of several thin layers rather than a thick one in order to obtain a final thickness of 0.8 mm.
- To obtain an optimal result, we recommend to apply after the GC 206 the resin R 842. When the R 842 is cured, start to laminate with a moulding resin like R 2000, R 2000/50 or R 2550.

7 POST CURING

To obtain optimal resistance properties, the laminate with the GC 206 should be post cured. Keep the laminate at ambient temperature (18- 20°C) during 24 hours after the application of the last layer of moulding resin. Then post cure for 16 hours at 40°C.

8 PACKAGING

Gel coat GC 206 is available in cans of 5 to 25 kg and drums of 225 kg.

9 STORAGE CONDITIONS AND HANDLING

Storage life : Gel coat GC 206 is stable for 3 months from date of production. The product must be stored in original closed packaging at a temperature between 15°C and 25°C, away from direct sunlight.

It is the responsibility of the customer to assure that the product is used in good conditions overall before the date limitation mentioned on the keg.

The gel coat is subject to the Highly Flammable Liquids Regulations.

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