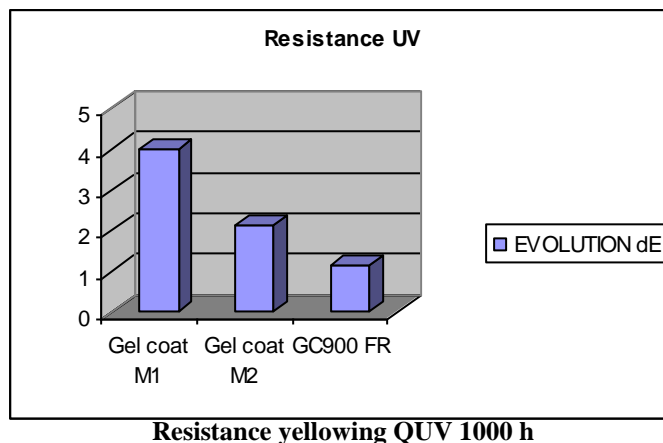


1. CHARACTERISTICS

Gel coat **GC 900 FR** is based on a special polyester resin, developed for spray application.

Gel coat **GC 900 FR** is a filled gel coat specially developed for parts whose fire resistant and required a good yellowing resistance.

- Pre-accelerated and thixotropic.
- Halogen free
- Ease application and good coverage.
- Without sagging on inclined surfaces.
- High resistance against UV (See graphic) and yellowing.



Classification M2 in association with resin NORESTER® 600: indicative test realised at NORD COMPOSITES laboratory.

2. PROPERTIES OF LIQUID GEL COAT

Brookfield viscosity Spray version (ISO 2555 - 20°C – sp5)	5 rpm : 140 – 200 Poises 50 rpm : 22 - 28 Poises
Specific gravity (ICON 012)	1.38 g/cm ³
Non volatile content (ICON 003)	77%
Geltime (ICON 002) (20°C – 2% MEKP on 100 g)	15 - 19 minutes

3. MECHANICAL PROPERTIES OF CAST GEL COAT

Flexural strength* (ISO 178)	90.4 Mpa
Tensile strength (ISO 527)	37.4 MPa
Elongation at break* (ISO 527)	1.78 %
Temperature of deflection under Load (HDT)* (ISO 75-3)	70°C
Barcol hardness*	45 after 24 hours

*Mechanical tests realized on the cured gel coat **GC 900 FR** with 2% MEKP.
 Post cure: 16 hours at 40°C.

IMPORTANT

All of the results obtained according to trials in our laboratory. However, we don't be responsible of manufactured parts with the gel coat **GC 900 FR**, if the application conditions specified are not respected.

The user must also ensure that his application is 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.

4. VERSIONS

Gel coat **GC 900 FR** is available in light colours, for other colours take contact with us.

Gel coat **GC 900 FR** exists in brush version **GC 901 FR** with a gel time 6 -8 min and a viscosity of 240 – 300 Poises at 5 rpm and of 50 – 60 Poises at 50 rpm.

Gel coat **GC 900 FR** is available with corundum in roll version **GO 901 FR**

Gel coat **GC 900 FR** is available in HRA version (Abrasive Resistance) **GH 900 FR**

Gel coat **GC 900 FR** is available in NPA version (No Pre-accelerated) **GN 900 FR** with gel time:

	0.3% cobalt 6% (20°C)	0.2% cobalt 6% (25°C)	0.1% cobalt 6% (30°C)
Gel time [min] on 100g with 2% P MEC M50 +	25	20	15

5. RECOMMENDATIONS BEFORE USE

- Mix the peroxide well, never put under 1% or over 3%.
- Before use, check that the temperature of the mould, the room and the product is between 18°C and 25°C.
- We recommend to catalyst **GC 901 FR** with 2% of MEKP peroxide.
- **GC 900 FR** is ready to use, homogenate the product before use.
- Avoid thickness especially in angles. We recommend the application of several thin layers rather than a thick one.
- Put 0.4 to 0.5 mm thickness of gel coat about 500 g/m²
- We retain the attention on the fact that this gel coat is M2 with the resin **Norester® 600** according to the indicative test realised in our laboratory. It is the responsibility of the customer to assure that the mould realised by himself is well classified M2.

6. POST CURING

To obtain optimum resistance properties, the laminate with the gel coat **GC 900 FR** must be post-curing. In order to accelerate the hardening, the laminate stays at ambient temperature (16 à 20 °C) during 24 hours followed a post-curing of 16 hours at 40°C. We advise to do a post-curing immediately after ripening period to obtain optimum results.

7. PACKAGING

Available in cans of 25 Kg.

8. STORAGE CONDITIONS AND HANDLING

Storage life: Gel coat **GC 900 FR** 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.

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

IMPORTANT

*All of the results obtained according to trials in our laboratory. However, we don't be responsible of manufactured parts with the gel coat **GC 900 FR**, if the application conditions specified are not respected.*

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ZA – route d'Amiens – 80890 Condé-Folie – Tél : 03.22.31.57.57 – Fax : 03.22.31.86.97