

## 1 CHARACTERISTICS

Gel coat **GC 195** is based on a NEOPENTYL-GLYCOL isophthalic polyester resin. Recommended for sanitary applications and produce pieces in chemical industry.

- **Gel coat GC 195 CLEAR and WHITE is certified LLOYDS: certificate n° MATS/4084/1 of 17/07/2009.**
- Thixotropic and pre-accelerated.
- Formulated for airless application.
- Freedom from drainage on inclined surfaces.
- High quality, good water resistance (hot and cold), good chemical and temperature resistance (thermal choc).
- Good Weathering and UV resistance.

## 2 PROPERTIES OF LIQUID GEL COAT

Brookfield viscosity (ISO 2555 - 20°C – sp5)	5 rpm : 140 - 200 Poise 50 rpm : 22 - 28 Poise
Specific gravity (ICON 012)	1.10 - 1.22 g/cm <sup>3</sup>
Non volatile content (ICON 003)	62%
Geltime (ICON 002) (20°C – 2% MEKP on 100 g)	10 - 14 minutes

## 3 MECHANICAL PROPERTIES OF CAST GEL COAT

Flexural strength* (ISO 178)	113 MPa
Flexural modulus* (ISO 178)	3.2 GPa
Tensile strength* (ISO 527)	63 MPa
Elongation at break* (ISO 527)	4%
Temperature of deflection under load* (HDT) (ISO 75-3)	95°C
Barcol hardness*	45

\*Mechanical tests realized on the **GC195 clear**. The samples are post cured 24 hours at room temperature and 16 hours at 40°C.

## 4 VERSIONS

Le GC 195 is available in all colours and in the versions below:

- Clear: **9901** (without filler),
- Translucent: **9902** (low coloration for apply like first layer with a background colored),
- Higher UV resistance: **9903** (beautiful colour, contain methyl methacrylate),
- Low viscosity: **GC 195 BV** with a viscosity at 5 rpm: 120 - 150 Poise and at 50 rpm: 20 - 24 Poise,
- Brush: **GC 194** with a viscosity et 5 rpm : 375 - 525 Poise and at 50 rpm 70 - 90 Poise, top coat with paraffin and brush: **GF 194**, top coat with paraffin and brush and **LGT** version: **GF194LGT** (gel time: 12 - 16 min at 20°C with 2% MEKP),
- UV stabilized: **GL 195**,

### IMPORTANT

All of the results obtained according to trials in our laboratory. However, we don't be responsible of manufactured parts with the **GC 195**, 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.



- Auto demolded: **GD 195**,
- Promoted : **GR 195**,
- Promoted et UV stabilized: **GLR 195**,
- Top coat with paraffined styrene: **GF 195**,
- Long gel time and blue colour: **GF 195 5017 LGT** with a gel time of 23 – 27 min (20°C – 2% MEKP on 100 g).

## **5 RECOMMENDATIONS BEFORE USE**

- Mix the peroxide well, never put under 1% or over 3%.
- Gel coat is ready to use, stir the gel coat each time before use to give a homogeneous product.
- It is formulated to give good characteristics of application with AIRLESS project and spray gun at gravity with a nozzle of 2,8 mm.
- Put 0,4 to 0,5 mm thickness of gel coat approximately 500 g/m<sup>2</sup>)
- Avoid thickness especially in angles. We recommend the application of several thin layers rather than a thick one.

## **6 POST CURING**

To obtain optimum resistance properties, the laminate with the gel coat **GC 195** 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 kegs of 25 kg or drums of 225 kg.

## **8 STORAGE CONDITIONS AND HANDLING**

Storage life: Gel coat **GC 195** 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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