

# 1 CHARACTERISTICS

Gel coat GC 195 is based on a NEOPENTYL-GLYCOL isophtalic 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 **GC 195 CLEAR**. The samples are post cured 24 hours at room temperature and 16 hours at 40°C.

## 4 VERSIONS

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

- Clear: 9901 (without filer),
- 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 (20°C sp5),
- UV stabilized: GL 195,
- Top coat with paraffined styrene: GF 195,
- Promoted: **GR 195** with a gel time of 6 8 min (20°C 2% MEKP M50 on 100 g),

## 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.



- Promoted et UV stabilized: GLR 195 with a gel time of 6 8 min (20°C 2% MEKP M50 on 100 g),
- Export: GC 195 EXPORT with a gel time of 17 23 min (20°C 2% MEKP on 100g).
- Brush: GC 194 with a viscosity at 5 rpm: 375 525 Poise, at 50 rpm: 70 90 Poise and a gel time of 6 10 min (20°C 2% MEKP M50 on 100 g),
- Brush and Top coat with paraffined styrene: GF 194 with a viscosity at 5 rpm: 375 525 Poise, at 50 rpm: 70 90 Poise and a gel time of 6 10 min (20°C 2% MEKP M50 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 optimums 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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