

VINYLESTER RESIN

DEFINITION

Vinylester resin, pre-accelerated, thixotropic, contains a color indicator to show perfect mixing. It does not contain any kind of waxes or paraffins. It gives composites excellent mechanical, chemical, and osmosis resistance characteristics. The fields of application range from tooling to boatbuilding, both as a skincoat and for the total construction of the finished product, thus achieving the maximum possible performance.

CHARACTERISTICS

Part A – Vinylester resin:

- Appearance: Hazy blue liquid
- Density: 1.11 g/cm³ ± 0,02
- Viscosity at 25°C: 600-650 mPa.s (Brookfield RVF, Spindle#3, 60 rpm)
- Thixotropic index: 3.2 – 4.1 (Brookfield RVF, Spindle #3, 6/60 rpm)
- Styrene content: 32-34%
- Water content: max 0.1%

Ready-to-use product:

- Gel time at 25°C: 30 – 32 minuti (100g Resina, 1.25g catalizzatore specifico)
- Time to peak: 11 – 15 minutes
- Exothermic peak: 140 – 180°C
- Tensile strength: 81 Mpa (ASTM D 638)
- Tensile elongation at break: 2.7% (ASTM D 638)
- Tensile elastic modulus: 4.1 GPa (ASTM D 638)
- Heat Distortion Temperature (HDT): 105°C (ASTM D 648)
- Tg: 123°C (DIN 53445)
- Barcol hardness: 48 (ASTM D 2583)

** 100g Resin, 1.25g specific catalyst. Tests on cured samples, held 2 hours at ambient temperature and then 2 hours at 100°C.*

MIXTURE PREPARATION

Catalyze at 1.25 - 2% with the appropriate liquid catalyst.

Stir the resin before use. Mix thoroughly before proceeding with its application.

The effectiveness of our products is based on practical experiences and research work carried out in our laboratories; nevertheless we accept no liability for work carried out following our instructions being clear that the final result depends in all cases on a series of unforeseeable factors.

* For any information about product codes or packs, please see our catalogue, our price list or contact us.

it is recommended to use the resin between 15 and 25°C, especially when using medium-reactivity MEKP (to extend the gel time during the summer period, a low-reactivity MEKP is recommended).

With an MEKP50/AAP (acetyl acetone peroxide) mixture, the curing time is shorter with a higher exothermic peak. The resin must be conditioned to a minimum of 15°C before use to obtain sufficient catalysis when MEKP is used.

APPLICATION

Applicable both for hand lay-up and spray-up lamination.

Do not laminate at intervals exceeding 24 hours, after which it may be necessary to abrade the laminate to allow for good interlaminar adhesion.

STORAGE

Store for 6 months in a cool, dry place, protected from light, at temperatures below 25°C.

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