



# 莘茂複合材料股份有限公司

## EPOTECH COMPOSITE CORPORATION

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### Epo-REG<sup>TM</sup> Resin

EPO-REG<sup>TM</sup> is designed for controlled flow solvent type prepregs. Under the common demand of static mechanical properties for a composite material, these cured matrices impart products good impact strength and remarkable fatigue resistance. Unidirectional tapes and woven fabrics impregnated with EPO-REG<sup>TM</sup> will retain tack for 7 or more days at room temperature.

#### ■ Description

- ◇ For controlled flow solvent type system.
- ◇ Designed for bladder moulding application.
- ◇ Available for carbon or glass tapes or fabrics.
- ◇ Controlled minimum viscosity for easier/stable processing under higher inner pressure.

#### ■ Curing conditions

EPO-REG<sup>TM</sup> can be cured at the temperature from 125<sup>0</sup>C to 150<sup>0</sup>C depending on the individual requirement. Low, medium and high curing pressure may be applied during EPO-REG<sup>TM</sup> curing process to obtain a proper surface condition and desired resin content. Recommended cure cycle for thin-walled structures are as below.

1. Lower curing pressure; heating rate  $>10^{\circ}\text{C}/\text{min}$  ramp to  $150^{\circ}\text{C}$ ; hold for 20~30 minutes; cool to  $<60^{\circ}\text{C}$ .
  2. Higher curing pressure is above 7 bar;  $5^{\circ}\text{C}/\text{min}$  ramp to  $150^{\circ}\text{C}$ ; hold for 20~30 minutes; cool to  $<60^{\circ}\text{C}$ .
    - ◇ Alternative cure: Ramp to  $130^{\circ}\text{C}$  and hold for 60 minutes.
    - ◇ Heat-up rate for thicker wall structure would be recommended not to be more than  $5^{\circ}\text{C}/\text{min}$ .
- I. The time applying pressure should be adjusted with varied shapes and cross-sections.
  - II. The effective pressure should be also adjusted with different requirements of cured products such as fibre/resin fraction, amendment of thickness etc.

#### ■ Handling and storage

**Storage temperature:** Store at  $4^{\circ}\text{C}$  for 3 months or  $-15^{\circ}\text{C}$  for 6 months.

**Handling:** Wear protective mask /glasses/gloves/clothing. Wash thoroughly after handling.

#### ■ Important

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