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EPO-HFTM TOUT DY Resin

EPO-HFTM TOUT DY is designed for outer pressure moulding processes. Under the common demand of static mechanical properties for a composite material, these cured matrices impart products excellent impact strength and remarkable fatigue resistance. Unidirectional tapes and woven fabrics impregnated with EPO-HFTM TOUT DY will retain tack for a week at room temperature.

■ Description

- ◇ Good out-life
- ◇ Good mechanical properties
- ◇ Good tacky
- ◇ Designed for Table Rolling/bladder moulding application
- ◇ Available for carbon or glass tapes or fabrics
- ◇ Controlled minimum viscosity for easier/stable processing

■ Curing conditions

EPO-HFTM TOUT DY can be cured at the temperature from 125⁰C to 150⁰C depending on the individual requirement. Low, medium and high curing pressure may be



applied during EPO-HFTM TOUT DY curing process to obtain a proper surface condition and desired resin content. Recommended cure cycle for thin-walled structures are as below.

1. Adjustable curing pressure; $2^{\circ}C/\text{min}$ ramp to $130^{\circ}C$; hold for 60 min; cooling to $<60^{\circ}C$.
2. A dwell time would be recommended to avoid the resin exotherm usually between $80^{\circ}C - 100^{\circ}C$. The dwell time is dependent on the mass and the type of tool.
 - 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:

■ Resin system:

Shelf life: $-15^{\circ}C$ for 6 months.

■ Prepreg:

Out life: 4 weeks at $21^{\circ}C$

Shelf life: $4^{\circ}C$ for 3 months or $-15^{\circ}C$ for 6 months.

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

■ Important

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