



# Polycor<sup>®</sup> GP-S

Unsaturated polyester

Version: 21<sup>st</sup> Dec, 2009

**APPEARANCE**

- Cloudy pinkish liquid gelcoat
- Cloudy white liquid gelcoat

**MAIN RESIN CHARACTERISTICS**

- Pre-accelerated, unpigmented, thixotropic orthophthalic modified gelcoat.
- High thixotropic properties enable it to be used on vertical or inclined surface without drainage.
- Suitable for addition of color paste without experiencing the drop in thixotropic.
- Good working properties and short over lamination time.

**MOLDING INFORMATION**

- Spray-up

**MAIN APPLICATION**

- Designed for general FRP coating on water / sewage tanks & panel.
- Suitable for automotive parts, spoiler, bumper and etc.
- Suitable for sanitary ware.
- Suitable for FRP furniture, table, flowerpot dustbin & etc.

**LIQUID RESIN PROPERTIES**

- Specific weight at 25<sup>o</sup>C : 1.12
- Solid content : Determine
- Acid value : 12 – 24 mgKOH/g
- Flash point : 31.8 <sup>o</sup>C
- Stability in the dark at 25<sup>o</sup>C : 4 months
- Thixo index at 25 <sup>o</sup>C : 6.5-7.5
- Viscosity at 25 <sup>o</sup>C (RVF/Sp5/4rpm): 25000-36000cps

**Reactivity**

- Test temperature : 25 <sup>o</sup>C
- Catalyst system : 1.5 % MEKP K1
- Resin quantity : 100 g
- Gel time : 5 - 10 mins
- Peak cure time : Determine
- Peak exothermic : Determine

**CURED RESIN PROPERTIES AS**

**NON-REINFORCED**

**Mechanical properties**

- Barcol hardness : 45 - 50
- Elongation at break : 4.6 %
- Water absorption 7 days at 23 <sup>o</sup>C: 0.42%
- Deflection Temperature under load ( 1.8 MPa) : 63 <sup>o</sup>C

*\* The curing schedule was at least 24hrs at ambient temperature followed by a minimum 16hrs at 40 <sup>o</sup>C*





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### DESIGNATION (according to ISO 3672-1)

### MARKING (according to ISO 11469)

> UP <

### SHELF LIFE

The product should be stored under shelter in the undamaged original container in a dry place at temperature not exceeding 25 °C. Avoid expose to direct sunlight. Under these conditions, the product can be stored for up to 4(four) months from the date of manufacturing.

### CAUTION IN CURE

It is recommended that gel time checked in the customer's plant, as age, temperature, humidity and catalyst will produce varied gel time. The catalyst level should not exceed 2.5% or fall down below 1% for proper cure. This product should not be used when temperature conditions are below 15 °C as curing may be affected.

### SAFETY PRECAUTIONS FOR HANDLING AND STORAGE

- Polyester solutions contain volatile and flammable monomers such as styrene (flash point: 32 °C)
- They are subject to the highly flammable liquids and liquid petroleum gases regulations 1972
- All polyester resins should be handled and used in well-ventilated, flameproof areas.
- It is preferable to wear gloves and goggles to guard against any skin/ eye irritation arising from the presence of styrene. Under no circumstances must accelerators be mixed with peroxide catalysts as it can cause explosions.

This data sheet was established according to NF T 50-063.

### PACKAGING

Polycor<sup>®</sup> GP-S is available in 20kg/pail and 225kg/drum