



Provisional Product Data Sheet

# MECHSTER™ 1110G(BP)

## (Bonding Paste based on Isophthalate Resin)

**Mechster™** designates a variety of unsaturated polyester resins synthesized at *Mechemco Resins Pvt. Ltd.*. These resins are specially engineered to meet the most diverse needs of fibreglass reinforced plastic moulding industry. Our R & D is geared to tailor **Mechster™ Resins** for the customers' most specific end application. In fact we take pride in suitably formulating the resin to improve your production efficiency as also the field performance of the FRP product.

**Mechster™ 1110G(BP)** is a highly thixotropic bonding paste based on a specially modified Isophthalate Polyester Resin. It is suitable for variety of applications involving bonding of FRP with FRP or other material.

**Mechster™ 1110G(BP)** is designed to have :

- Excellent Adhesion between FRP to FRP surface
- Easier Vertical surface applications with minimum sagging
- Even and Fast Curing

Components joined with **Mechster™ 1110G(BP)** exhibit excellent adhesion bond which is corrosion resistant as well as stable under dynamic load conditions.

### Physical Properties

Appearance	: Light Bluish Green Colored Opaque Paste
Specific Gravity @ 25°C	: 1.20 ± 0.01
Viscosity behavior @ 25°C	: Highly Thixotropic
Volatile Content (w/w) %	: 35 ± 2

### Curing Behaviour

Gel time, minutes @ 25°C	: 10 - 15
1.5% Catalyst (MEKP with 9% Active Oxygen)	
Peak Exotherm Temperature, °C	: > 100

### Properties of Cured Mechster™ 1110G(BP)

Specific Gravity @ 25 °C	: 1.22
Tensile Strength, MPa	: 45
Tensile Modulus, MPa	: 3200
Heat Deflection Temperature, °C	: 80
Barcol Hardness	: 35

(Test methods as per relevant IS standards)

### Uses

**Mechster™ 1110G(BP)** is an ideal adhesive for bonding FRP to FRP as well as FRP to PU Foam material. This bonding paste is designed to provide an excellent adhesive bonding having very good sealing properties for liquids / gases even in wet environment.

### Packing

**Mechster™ 1110G(BP)** is supplied in non returnable Open Top MS Drums containing 50 kg net.

### Storage & Handling

**Mechster™ 1110G(BP)** should be stored in a cool and dry place away from sunlight, preferably below 30°C. Under these conditions, the shelf life is 2 months. Material must be mixed well before use.

**Mechster™ 1110G(BP)** has a flash point of 34°C and is classified as flammable. Containers should be kept in a cool and ventilated place away from sunlight and sources of ignition. "No Smoking" rules should be strictly enforced. In case of fire, use dry chemical, foam, carbon dioxide or water spray to extinguish the flame. Spillages may be absorbed onto sand or earth and shovelled off and disposed according to local disposal regulations.

Skin contact and vapor inhalation should be avoided during moulding because of the presence of styrene monomer. In case of irritation in the eye or skin, wash with copious amount of water. In extreme case, seek immediate medical advice. The moulding area should be sufficiently ventilated for reducing the vapour levels in the air while compounding and moulding.

*The above information and recommendation are based on our extensive experience in the field and is provided only as a general guidance for application of our product. The user should verify the suitability of our product for their own specific applications. We do not warrant or assume any liability for the information provided.*

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