

PROVISIONAL PRODUCT DATASHEET

# MECHSTER™ 9000G

(General Purpose Orthophthalate Gel coat)

**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™ 9000G** is a gelcoat based on Orthophthalate Polyester Resin.

**Mechster™ 9000G** is designed to have :

- Excellent surface finish
- Faster curing time
- Easier Vertical surface applications
- Minimal Sagging

Components made from **Mechster™ 9000G** exhibit excellent surface finish which is smooth and glossy. This gel coat has good hydrolytic stability, improved mechanical strength and electrical insulation properties.

### Liquid Resin Properties

Property	Nominal Values	Test Method*
Appearance	Viscous Liquid	AM-113
Specific Gravity @30°C	1.11 ± 0.01	AM-103
Viscosity <sup>1</sup> @ 30°C, cP	4500 ± 500	AM-101
Thixotropic Index @ (5/50) rpm	> 4.5	AM-101
Volatile Content, (w/w) %	37 ± 3	AM-106

### Curing Characteristics

Standard Gel Time Test @ 30°C

50g Resin in Steel Cup + 1 % A103 + 1.5% Butanox M-50

Property	Nominal Values	Test Method*
Gel Time, minutes	6 - 9	AM-110
Peak Exotherm Temperature, °C	140 - 160	AM-110

Note:

\* Internal Test Method, available on request

1: By Brookfield Viscometer, RVT Sp. No 4, 50 rpm

A103: Cobalt Octoate with 3% Cobalt

Butanox M-50: Methyl Ethyl Ketone Peroxide from Akzo Nobel

### Uses

**Mechster™ 9000G** is a Brushable gelcoat suitable for use along with **Mechster™ Resins** for wide variety of indoor as well as outdoor applications. Sprayable version is available on request.

### Packing

**Mechster™ 9000G** is supplied in non returnable Open Top M.S. drums containing 50 kg net or HDPE Carboys containing 35 kg net.

### Storage & Handling

**Mechster™ 9000G** has a flash point of 34°C and should be stored in a cool and dry place away from sunlight, preferably below 25°C. Under these conditions, the shelf life is 3 months. The storage stability could be further improved by aerating the resin stored in barrels at an interval of about a fortnight.

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.

### Caution

Store catalyst and accelerator separately. Do not allow them to come in contact with each other as they form an explosive mixture. Carry out separate addition of accelerator and catalyst to the resin mix for avoiding accidents

**UV Stabilized Gel Coat and Top Coat Version with MechWax™ additive is available on request**

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.

Mechster™ is Registered Trade Mark of Mechemco

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