



MECHSTER™9000TC

(Polyester Resin for Top Coat Application)

Mechster™ designates a variety of unsaturated polyester resins synthesized at **Mechemco Industries**. 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™9000TC is a medium reactivity, thixotropic, preaccelerated, waxed polyester resin specially formulated for top coat applications for FRP Composites

Mechster™9000TC offers excellent coverage and easy air release ensuring uniform coating. Uniform Curing of the material with low shrinkage provides better surface finish and ensures tack free surface

Physical Properties of Mechster™9000TC

Appearance	: Milky Rose Color Viscous Liquid
Specific Gravity @25°C	: 1.10 ± 0.01
Viscosity @ 25°C by Brookfield Viscometer	
RVT, Sp. #2, 60 rpm, cP	: 450 ± 50
Thixotropic Index	: 2.5
Acid Value, mg KOH/g	: 20 ± 2
Volatile Content, (w/w) %	: 38 ± 2

Curing Behaviour

Geltime, minutes @25°C with 1.0% v/w MEKP (9% Active Oxygen):	: 10 – 12
Gel To Peak, minutes	: 12 – 16
Peak Exotherm Temperature, °C	: 175 ± 10

Properties of Cured Mechster™9000TC(Unfilled Cast)

Tensile Strength, MPa	: 65
Tensile Modulus, MPa	: 3200
Elongation at Break, %	: 3.0
Flexural Strength, MPa	: 100
Flexural Modulus, MPa	: 3500
Heat Deflection Temperature, °C	: 70
Barcol Hardness	: 40
(Test methods : IS 6746-1994, ASTM and BS where IS not available.)	

Uses

Mechster™9000TC is most suitable for application for filament wound pipe manufacturing process as the final coat to ensure the completely tack free surface on the pipe.

Packing

Mechster™9000TC is supplied in non returnable M.S. drums containing 225 kg net. or returnable IBCs containing 1.0 MT net.

Storage and Handling

Mechster™9000TC 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.

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.