

CRYSTIC[®] D5101

Isothallic polyester resin

Introduction

Crystic D5101 is an un-accelerated thixotropic Isothallic polyester resin.

Applications

Crystic D5101 is particularly suitable for the production of liners to be used in the pipe relining (CiPP or Cured-In-Place-Pipe) industry.

Features and Benefits

Fully cured laminates offer good chemical resistance and mechanical properties, together with good long term property retention.

Product Characteristics

Crystic D5101 should be allowed to attain workshop temperature (18°C - 20°C) before use. It requires the addition of a catalyst such as Perjadox 16 to start the curing reaction.. The catalyst should be thoroughly incorporated into the resin, using a low shear mechanical stirrer where possible..

Additives

The addition of pigments, fillers or extra styrene may affect the properties of Crystic D5101. Their effect should be evaluated before addition to the formulation.

Typical Properties

The following tables give typical properties of Crystic D5101 when tested in accordance with BS or BS EN ISO test methods

Property		Liquid Resin
Appearance		Cloudy bit free resin
Viscosity at 25 °C - RV1 C+P(60mm,2 deg) 37.35 sec ⁻¹	Poise	10-14
Volatile Content	%	37-43
Acid Value	Mg KOH/g	13-20
Geltime at 25 °C using 1% Perkadox 16	minutes	3-6

Storage

Crystic D5101 should be stored between 5°C and 25°C in the original, unopened container in a dry, well ventilated place. Protect from freezing and direct sunlight. Avoid contact with oxidising agents. If stored outside of these recommendations, shelf life will be significantly reduced.

Packaging

Crystic D5101 can be supplied in , 225kg drums and IBC containers. Bulk supplies can be delivered by road tanker.

Health & Safety

Please see separate Material Safety Data Sheet.

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Group tech class R50213

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