

Introduction

Crystic® D5101 is an unaccelerated thixotropic isophthalic polyester resin.

Features and benefits

Developed for the pipe relining industry, fully cured laminates of D5101 offer good chemical resistance and mechanical properties, together with good long-term property retention.

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.

Physical data

The following table gives typical properties of Crystic® D5101:

Property	Unit	Crystic® D5101
Appearance		Cloudy bit-free resin
Viscosity at 25°C RV1 C+P(60mm,2deg) 37.35 sec ⁻¹	Poise	10-14
Volatile Content	%	37-43
Acid Value	mgKOH/g	13-20
Geltime at 82°C using 1% Perkadox 16	Minutes	3-6

Formulation

Crystic® D5101 should be allowed to attain workshop temperature (18°C - 20°C) before use. It requires the addition of a catalyst such as Perkadox 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.



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.

Shelf life is 9 months from date of manufacture when stored correctly.

Packaging

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

Health and Safety

Please see separate Safety Data Sheet.

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