CRYSTIC 2-446 PA - 45

Low Styrene Emission, Low Exotherm Polyester resin

Introduction

Crystic 2-446 PA - 45 is a low styrene emission, pre-accelerated, thixotropic, orthophthalic resin.

Crystic 2-446 PA – 45 is a versatile resin with relatively long open time but rapid-cure.   The resin has been designed for use by hand lay & spray up process and is extra stabilized for transportation, storage and use in tropical climate.

Crystic 2-446 PA - 45 has blue colour catalyst indicator and exhibits reduced exotherm on curing. This makes it suitable for the construction of thicker laminates. During lamination phase, styrene emissions from Crystic 2-446 PA- 45 are considerably reduced compared with a normal resin.

Application

Crystic 2-446 PA – 45 is recommended for manufacture of vehicle bodies, boats and industrial moldings.

Approvals

Crystic 2-446 PA is approved by Lloyds Register of Shipping for use in the construction of craft under their survey.

Formulation

Crystic 2-446 PA – 45 may be used in the following cold curing formulation:

	Parts by Weight
Crystic 2-446 PA - 45	100
Butanox M 50	1 to 2

Crystic 2-446 PA - 45 requires only the addition of catalyst to start the curing reaction.

The accelerated resin without catalyst will usually remain usable at ambient temperature (25^0C) for minimum 3 months. Shortly before use, the correct amount of catalyst should be added and stirred into the accelerated resin.

Typical Properties of Liquid Crystic 2-446 PA - 45

Viscosity at 25^0C (Brookfield LVT) SP3/60	Centi poise	700
Viscosity at 25^0C (ICI C & P , 10000 sec -1)	poise	2.5
Acid value	mgKOH/g	20
Non Volatile content	%	58
Appearance		Bluish Thixotropic
Stability in the dark at 25^0C	months	3
Gel time at 25^0C Resin =100 gms + Butanox M50 = 1.5 ml, A) QC specification B) Gel time (aged)	 Minutes Minutes	 A) 35 B) 45
Styrene Emission – AS/NZS 4585.1 : 1999	Gms / m2	< 20
Interlaminar adhesion test – AS/NZS 4585.2 : 1999		Passes