CRYSTIC® GELCOAT 43PA

Low Viscosity Sandable Brush Gelcoat

Introduction
Crystic Gelcoat 43PA is a pre-accelerated, isophthalic, filled, sandable brush gelcoat. It has been specifically designed for applications that are to be post-painted. The gelcoat is available in a limited range of colours and the information contained in this technical data sheet also applies to pigmented versions.

Formulation
Crystic Gelcoat 43PA should be allowed to attain workshop temperature (18-20°C) before use. Stir well by hand, or with a low shear mixer to avoid aeration, and then allow to stand to regain thixotropy. The product requires only the addition of catalyst to start the curing reaction. The recommended catalyst is Butanox M50 (or other equivalent catalyst) which should be added at 2% into the gelcoat. (Please consult our Technical Service Department if other catalysts are to be used). The catalyst should be thoroughly incorporated into the gelcoat, with a low shear mechanical stirrer, where possible.

Pot Life

Temperature	Pot Life In Minutes
25ºC	12

Curing should not be carried out at temperatures below 15°C. The gelcoat, mould and workshop should all be at, or above, this temperature.

Additives
Crystic Gelcoat 43PA is supplied in a limited range of colours. This eliminates the potential for mixing errors with small quantities of pigment paste. The gelcoat is filled, so the addition of further quantities of filler, or pigments, may adversely affect the properties of both liquid and cured gelcoats.

Recommended Testing
It is recommended that customers test all pigmented gelcoats before use under their own conditions of application to ensure the required surface finish is achieved.

Post-Curing
Satisfactory laminates for many applications can be made with this gelcoat by curing at workshop temperature (20°C).

Physical Data - Uncured
The following tables give typical properties of Crystic Gelcoat 43PA when tested in accordance with BS2782

Property	Unit	Liquid Gelcoat
Viscosity at 25ºC		Thixotropic
Specific Gravity at 25ºC		1.3
Stability at 20ºC	Months	3
Geltime at 25ºC Using 2% Butanox M50 (or Other Equivalent Catalyst)	Minutes	12

Physical Data - Cured

Property	Unit	Fully Cured *Gelcoat
Barcol Hardness (Model GYZJ 934-1)		30
Water Absorption 24 hrs at 23ºC	mg	20
Deflection Temperature Under Load† (1.80 MPa)	ºC	52
Elongation at Break	%	2.4
Tensile Strength	MPa	41
Tensile Modulus	MPa	2600

* Curing Schedule - 24hrs at 20ºC, 3hrs at 80ºC.
† Curing Schedule - 24hrs at 20ºC, 5hrs at 80ºC, 3hrs at 120ºC.

Storage
Crystic Gelcoat 43PA should be stored in its original container and out of direct sunlight. It is recommended that the storage temperature should be less than 20°C where practical, but should not exceed 30°C. Ideally, containers should be opened only immediately prior to use.

Packaging
Crystic Gelcoat 43PA is supplied in 25Kg and 225Kg containers.

Health and Safety
Please see separate Material Safety Data Sheet.

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