

CRYSTIC[®] CRESTACOAT 5000PA

Barriercoat for Improved Aesthetics

Introduction

Crystic Crestacoat 5000PA is a low density pre-accelerated barrier gel formulated for either hand or spray application.

Applications

Crystic Crestacoat 5000PA is recommended for use where excellent surface aesthetics are required for glass fibre reinforced laminates. It is particularly recommended for use behind dark coloured gelcoats, for vacuum infusion and for moulds. For marine applications, it is recommended for use both above and below the waterline, although a skincoat (Crystic VE679PA) must be used below the waterline to ensure optimum osmosis resistance.

Formulation

Crystic Crestacoat 5000PA should be allowed to attain workshop temperature (18 - 20°C) before use. Crystic Crestacoat 5000PA requires only the addition of catalyst to start the curing reaction. A colour change mechanism is incorporated into Crystic Crestacoat 5000PA to indicate the presence of catalyst. After catalyst addition, the barrier gel will change from light blue to green and then tan. The recommended catalyst is Butanox M50 (or other equivalent catalyst) which should be added at 2% by weight into the barrier gel. (Please consult our Technical Service Department if other catalysts are to be used). For brush application the catalyst should be incorporated into the barrier gel with a low shear mechanical stirrer where possible.

Pot Life

Temperature	Pot Life In Minutes
15°C	40 - 45
20°C	34 - 38
25°C	25

The barrier gel, mould and workshop should all be at, or above 15°C before curing is carried out.

Application

Crystic Crestacoat 5000PA is designed to be used behind a standard gelcoat and should be applied when the gelcoat has reached sufficient cure for normal lamination to take place. It can be applied by either hand or spray application to a recommended thickness of 1mm. (Please consult our Technical Service Department for information on suitable spray equipment). It is recommended that the barrier gel layer is as even as possible. As a guide, approximately 600g/m² of barrier gel mixture will give the required thickness when evenly applied.

Additives

Crystic Crestacoat 5000PA is supplied ready for use. The addition of any additives may adversely affect the performance of Crystic Crestacoat and therefore should not be used.

Recommended Testing

It is recommended that customers test Crystic Crestacoat 5000PA before use under their own conditions of application to ensure the required surface finish is achieved.

Physical Data - Uncured

The following tables give typical properties of Crystic Crestacoat 5000PA when tested in accordance with SB, BS EN or BS EN ISO test methods.

Property	Unit	Liquid Crestacoat
Appearance		Light Blue Paste
Viscosity at 25°C		Thixotropic
Specific Gravity at 25°C		0.6
Stability at 20°C	Months	3
Geltime at 25°C Using 2% Butanox M50 (or Other Equivalent Catalyst)	Minutes	25

Physical Data - Cured

Property	Unit	Fully Cured Crestacoat Casting
Shore Hardness		70
Deflection Temperature Under Load† (1.80 MPa)	°C	58
Elongation at Break	%	3.5
Tensile Strength	MPa	17
Tensile Modulus	MPa	1050

* Curing Schedule - 24 hours at 20°C, 3 hours at 80°C.

†Curing Schedule - 24 hours at 20°C, 5 hours at 80°C, 3 hours at 120°C.

Storage

Crystic Crestacoat 5000PA should be stored in its original container and out of direct sunlight. It is recommended that the storage temperature 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 Crestacoat 5000PA is supplied in 15Kg containers.

Health and Safety

Please see separate Material Safety Data Sheet.

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