

CRYSTIC[®] BARRIERCOAT 550PA

Isophthalic Brush Barriercoat for Improved Aesthetics

Introduction

Crystic Barriercoat 550PA is an isophthalic barriercoat formulated for brush application.

Applications

Crystic Barriercoat 550PA is recommended for use where good surface aesthetics are required for glass reinforced laminates. It is particularly recommended for use behind dark colour gelcoats and for vacuum infusion. For marine applications, use above the water line only.

Formulation

Crystic Barriercoat 550PA should be allowed to attain workshop temperature (18 - 20°C) before use. Crystic Barriercoat 550PA 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% by weight into the barrier gelcoat with a low shear mechanical stirrer where possible. (Please consult our Technical Service Department if other catalysts are to be used).

Pot Life

The pot life of Crystic Barriercoat 550PA is approximately 9 minutes at 25°C.

Application

Crystic Barriercoat 550PA 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 should be applied by brush application to a recommended thickness of 1mm. It is recommended that the barrier gelcoat layer is as even as possible. As a guide, approximately 1.4kg/m² of barrier gelcoat mixture will give the required thickness when evenly applied.

Additives

Crystic Barriercoat 550PA is supplied ready for use. The addition of any additives may adversely affect the performance of this product and therefore should not be used.

Recommended Testing

It is recommended that customers test Crystic Barriercoat 550PA 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 Barriercoat 550PA when tested in accordance with SB, BS EN or BS EN ISO test methods.

Property	Unit	Liquid Barriercoat
Viscosity at 25°C		Thixotropic
Specific Gravity at 25°C		1.4
Stability at 20°C	Months	3
Geltime at 25°C Using 2% Butanox M50 (or Other Equivalent Catalyst)	Minutes	9

Physical Data - Cured

Property	Unit	Fully Cured* Barriercoat
Barcol Hardness		49
Water Absorption 24 hrs at 23°C	mg	13
Deflection Temperature Under Load† (1.80 MPa)	°C	59
Elongation at Break	%	1.5
Tensile Strength	MPa	47
Tensile Modulus	MPa	4600

* 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 Barriercoat 550PA 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 Barriercoat 550PA is supplied in 25Kg containers.

Health and Safety

Please see separate Material Safety Data Sheet.

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