

CRYSTIC TOPCOAT 49PA Excel

Introduction

Crystic Topcoat 49PA Excel is a pre-accelerated, isophthalic topcoat containing polymeric granules to produce a textured, non-slip surface when cured. It has been designed to be post-applied to a GRP laminate surface by brush and is available in a restricted range of colours. The information contained in this technical datasheet also applies to these pigmented versions.

Formulation

Crystic Topcoat 49PA Excel 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. Crystic Topcoat 49PA Excel 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 topcoat. (Please consult our Technical Service Department if other catalysts are to be used). The catalyst should be thoroughly incorporated into the topcoat, with a low shear mechanical stirrer, where possible.

Pot Life

Temperature	Pot Life in Minutes
15°C	25
20°C	16
25°C	10

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

Application

For normal requirements, approximately 600-800g/m² of topcoat (depending on pigment) will give adequate thickness when evenly applied.

Before applying Crystic Topcoat 49PA Excel, the laminate surface must be properly prepared. The surface should have a residual tack, which can be achieved by wiping with acetone and light abrasion, if necessary.

Additives

Crystic Topcoat 49PA Excel is supplied in a restricted range of colours. This eliminates the potential for mixing errors with small quantities of pigment paste. The addition of fillers or pigments can adversely affect the properties of the cured topcoat.

Recommended Testing

It is recommended that before using Crystic pigmented gelcoats, customers test all colours under their own conditions of application to ensure they attain the quality surface finish they require.

Post Curing

Curing at workshop temperature (20°C) will be satisfactory for many applications. If optimum properties are required, we recommend that the laminates are post-cured before the application of Crystic Topcoat 49PA Excel.

Typical Properties

The following tables give typical properties of Crystic Topcoat 49PA Excel.

Property		Liquid Gelcoat
Appearance		Filled opaque
Viscosity at 25°C		thixotropic
Specific Gravity at 25°C		1.1
Stability at 20°C	months	3
Gel time at 25°C using 2% Butanox M50 (or other equivalent catalyst)	minutes	10

Storage

Crystic Topcoat 49PA Excel 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. Where they have to be stored outside, they should be stored in such a manner as to avoid the possible ingress of water.

Packaging

Crystic Topcoat 49PA Excel is supplied in 25kg and 225kg containers.

Health and Safety

Please see separate Material Safety Data Sheet

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