

CRYSTIC[®] TOPCOAT 407PA WHITE

White Pigmented Orthophthalic Polyester Flowcoat

Introduction

Crystic Topcoat 407PA White is a pre-accelerated topcoat with excellent scuff resistance, designed for use in general purpose GRP mouldings. It is based on a high quality orthophthalic unsaturated polyester resin. It is suitable for all general moulding requirements. It is pigmented using a highly UV resistant grade of titanium dioxide. It has been formulated for brush application. A sprayable version, Crystic Topcoat 408PA White, is available.

Applications

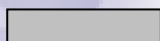
Crystic Topcoat 407PA White is designed for application on the back of GRP mouldings, as a decorative, protective coating for the laminate. It will resist mild chemical attack from cleaning agents, etc, but it is not designed for use on the inner surfaces of vessels holding water. For such an application, Crystic Topcoat 506PA White is recommended.




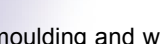


Formulations

Crystic Topcoat 407PA White should be allowed to attain workshop temperature (18°C-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 407PA White requires only the addition of catalyst to start the curing reaction. The recommended catalyst is Andonox[®] KP9, and this should be added at 1-3% into the topcoat. In hot weather, the pot life can be so short even with 1% Andonox[®] KP9, that it is difficult to avoid the material gelling in the pot. Do not use less than 1% Andonox[®] KP9. Rather use Norox[®] MEKP-925H. The catalyst should be thoroughly incorporated into the topcoat, with a low shear mechanical stirrer where possible.

Pot Life

The temperature, and the amount of Andonox[®] KP9 catalyst or Norox[®] MEKP-925H will affect the geltime, and hence the pot life of Crystic Topcoat 407PA White. The below table shows geltime in minutes of Crystic Topcoat 407PA at varying temperatures.

 = Combination not recommended.

Catalyst Type		Andonox [®] KP9			Norox [®] MEKP-925H		
		1%	2%	3%	1%	2%	3%
Catalyst Addition		Geltime In Minutes					
Temperature	15°C		24	18			
	25°C	16	11		43	22	15
	35°C	8	5½		18	9	7

The topcoat, moulding and workshop should all be at or above, 15°C before curing is carried out. Scott Bader (Pty) Ltd. will not be liable for problems caused by use at lower temperatures than recommended.

N.B. Peroxide catalysts are highly reactive and may decompose with explosive violence, or cause fires, if they come into contact with flammable materials, metals or accelerators. For this reason they must never be stored in metal containers or be mixed directly with accelerators.

Application

Crystic Topcoat 407PA White is designed for application by brush or roller to the back of GRP laminates in order to protect the fibres from water attack and to provide an attractive finish. Coverage is affected greatly by the evenness of the laminate. Measures taken to achieve a smooth finish, such as sanding or the use of surface tissue, will reduce the amount of Crystic Topcoat 407PA White required to cover the surface. In normal use, the application of should be controlled to 0.5-0.6 mm wet film thickness. As a guide, approximately 600-800 g/m² of topcoat mixture will give the required thickness when evenly applied.

Additives

The addition of fillers to Crystic Topcoat 407PA White can adversely affect the water and scuff resistance of the cured topcoat. Should coloured topcoat be required, Crystic Topcoat 402PA can be supplied in a range of colours.

Physical Data- Uncured

The following table gives typical properties of Crystic Topcoat 407PA White.

Property	Units	Liquid Topcoat
Appearance		White
Viscosity at 25°C, Brookfield RVT at 100 rpm	Centipoise	6500
Thixotropic Index	Ratio	3.0
Specific Gravity at 25° C		1.455
Geltime at 25°C Using 2% Andonox® KP9 Catalyst	Minutes	11
Stability In The Dark at 20°C	Months	3

Storage

Crystic Topcoat 407PA White should be stored in the dark in suitable, closed containers. 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, it is recommended that drums be kept in a horizontal position to avoid the possible ingress of water. Wherever possible, containers should be stored under cover.

Packaging

Crystic Topcoat 407PA White is supplied in 25Kg and 225Kg containers.

Health and Safety

Please see the applicable Material Safety Data Sheets, depending on the curing system used.

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