

# CRYSTIC® TOPCOAT 507PA WHITE

## White Pigmented Iso-NPG Polyester Brush Topcoat

### INTRODUCTION

**Crystic® Topcoat 507PA White** is a pre-accelerated Topcoat with excellent water and weather resistance, designed for use in the marine and building industries. It is based on a high quality isophthalic-NPG polyester resin. It has been formulated for application by brush. It is pigmented using a highly UV resistant grade of titanium dioxide.

### APPLICATIONS

**Crystic® Topcoat 507PA White** is recommended as a finishing coat for GRP lined swimming pools. It is also suitable for all general moulding requirements where the back of the laminate needs to be protected from water or mild chemical attack.

### FORMULATION

**Crystic® Topcoat 507PA 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 507PA White** requires only the addition of catalyst to start the curing reaction. The recommended catalyst is Catalyst M (Andonox® KP9 or Curox® M200), and this should be added at 1-3% 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.

Care should be taken to ensure that the **Crystic® Topcoat 507PA White** is correctly formulated for use. Undercatalysation brings a risk of failure as a protective coating. Should the ambient temperature during application be so high as to result in an unworkably short potlife, consider reducing the mix size rather than reducing catalyst levels below 1%. Avoid working under hot midday conditions. Too fast a film gel time (it should not gel as a film in less than 15 minutes) may result in air entrapment. This may cause problems due to osmosis.

The Topcoat, pool/moulding and ambient temperature 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<sup>®</sup> Topcoat 507PA White** is designed for application by brush to the back of GRP laminates or the water contact surface of in-situ GRP lined swimming pools, 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<sup>®</sup> Topcoat 507PA 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 500-700 g/m<sup>2</sup> of Topcoat mixture will give the required thickness when evenly applied.

## ADDITIVES

The addition of fillers to **Crystic<sup>®</sup> Topcoat 507PA White** can adversely affect the water and weather resistance of the cured Topcoat, and should be avoided.

## COLOURED TOPCOATS

Should coloured Topcoat be required, **Crystic<sup>®</sup> Topcoat 507PA** can be supplied in a range of colours. However, only pastel shades are recommended for swimming pools. Dark colours are prone to excessive heat absorption from the sun and this may interfere with the cure of the Topcoat.

## TYPICAL PROPERTIES

The following table gives typical liquid properties of **Crystic<sup>®</sup> Topcoat 507PA White**.

Property	Units	Nominal value
Appearance		White, opaque
Viscosity @ 25°C, Brookfield RVT sp.6 @100 rpm	centipoise	6500
Thixotropic index	ratio	4.0
Geltime at 25°C using 2% Catalyst M	minutes	12.5
Stability in the dark @ 20°C	months	3

## STORAGE

**Crystic<sup>®</sup> Topcoat 507PA 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<sup>®</sup> Topcoat 507PA 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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*Before you use this information, kindly verify that this data sheet is the latest version. All information is given in good faith but without warranty. We cannot accept responsibility or liability for any damage, loss or patent infringement resulting from the use of this information.*



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