

CRYSTIC[®] 923

Polyester resin for button casting

INTRODUCTION

Crystic[®] 923 is an un-accelerated, orthophthalic unsaturated polyester resin with a high viscosity to allow centrifugal casting. It has high clarity and low colour.

APPLICATIONS

Crystic[®] 923 has been developed specifically for sheet cast buttons.

FEATURES AND BENEFITS

Low colour, high clarity allows colourless buttons to be made as well as clean colours.

FORMULATION

Crystic[®] 923 should be allowed to attain workshop temperature (18°C - 25°C) before use. **Crystic[®] 923** is formulated for room temperature curing applications. It requires the addition of accelerator and then the correct amount of a suitable catalyst for sheet casting of button blanks.

Pigment pastes can be mixed with **Crystic[®] 923**, when a specific colour is required.

Table 1: Formulation for room temperature curing of **Crystic[®] 923**.

Component	
Crystic [®] Accelerator LC, parts by volume on mass	0.5-1.5
Catalyst M (Norox [®] KP9), parts by volume on mass	1.0-3.0

The accelerator and catalyst must be stirred thoroughly into the resin shortly before use. Curing should not be carried out at temperatures below 15°C. The resin, mould and workshop should 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.

PRODUCT CHARACTERISTICS

TYPICAL PROPERTIES

The following tables gives typical properties of liquid **Crystic[®] 923**.

Property	Units	Nominal value
Colour / Appearance		Clear, colourless
Acid Value	mgKOH/g	26
Non Volatile content	%	73
Viscosity @ 25°C using Brookfield RVT @ 100rpm	cPs	1425
Stability in the dark at 25°C	Months	6
Geltime using 1ml Accelerator LC and 2ml Norox [®] KP9 in 100g resin @ 25° C	minutes	5

STORAGE

Crystic[®] 923 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.



PACKAGING

Crystic® 923 is supplied in 25kg kegs, 225kg drums, and 1000kg intermediate bulk containers.

HEALTH AND SAFETY

See separate Material Safety Data Sheet

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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.

SCOTT BADER COMPANY LIMITED

SCOTT BADER (Pty) Ltd
Reg. No. 93/00466/07
1 Lubex Road, Hammarsdale
3700
P.O. Box 1539, Hillcrest, 3650
South Africa
Tel: +27 (0) 31 736 8500
Fax: +27 (0) 31 736 8511

Gauteng
1 Peddie Rd, Wadeville
Tel: (086) 147 3746

KwaZulu Natal
1 Lubex Road,
Hammarsdale

Tel: (086) 117 3746
Fax: (031) 736 8511

Eastern Cape
Freightpak Building
Chevrolet St
Markman Industrial
Port Elizabeth
Tel: (086) 167 3746

Unit A8, Edgemead
Business Park, Southdale
Rd, Edgemead
Tel: (086) 177 3746
Fax: (021) 386 1100