

Product Description

Crystic® Polyester Pigment Pastes are specially formulated for use in polyester gelcoats and resins. Scott Bader manufacture and keep stock of 20 pigment pastes which are used in combination to produce British Standard, RAL standards, the NCS Range as well as special matches to individual customer requirements.

Crystic® Polyester Pigment Pastes are formulated for use and have been fully tested in most Crystic® products. They can be used with other gelcoat and resin systems; however, we do not guarantee their performance in these products. To avoid problems with viscosity, colour separation, water and chemical resistance and weathering, it is recommended that sample tests are carried out by the customer before use. Some colours are not suitable for low-taint applications.

Crystic® Polyester Pigment Pastes can be used for other applications not involving polyesters, e.g. epoxy flooring. Sample tests should always be carried out by the customer before use. Please consult our Technical Service Department for any advice on the above applications.

Formulation

Scott Bader purchase high performance pigment powders which are finely dispersed in a Crystic® resin to manufacture Crystic® Polyester Pigment Pastes. Crystic® Polyester Pigment Pastes do not contain any fillers or other extenders

The level of Crystic® Polyester Pigment Paste required to achieve sufficient performance and opacity will depend on the colour. For white or pale colours we recommend you purchase the white gelcoat from Scott Bader to remove the risk of diluting the properties of the gelcoat with excess pigment addition. Generally, we recommend addition of 8-10 % Crystic® Polyester Pigment in Crystic® polyester gelcoats and addition of 4-5 % in in Crystic® polyester resins.

Crystic® Polyester Pigment Pastes should be thoroughly dispersed in the gelcoat or resin before the addition of the catalyst. This can be done by stirring well by hand or with a low shear mixer to avoid aeration. When mixing by hand, we recommend that the pigment paste is dispersed in a small quantity of gelcoat or resin before being added to the bulk.

For critical applications, pre-pigmented gelcoats or resins should be used wherever possible.

Weathering

We do extensive weathering testing in both natural and accelerated environments for Crystic® Polyester Pigment Pastes in Crystic® gelcoats. For natural weathering, samples are sent to Florida for 12 months and for accelerated weathering we run the samples in both Xenon Arc machines and QUVA machines.

Colour Reproducibility

Crystic® Polyester Pigment Pastes are subject to strict quality control tests during manufacture. However, good colour reproducibility can be achieved only by the customer taking extreme care in weighing the pigment pastes and other additives e.g. catalyst. As with other coloured materials, it is recommended that the same batch is used throughout the process for a consistent colour on all parts.

Packaging and Storage

Crystic® Polyester Pigment Pastes are available in 1Kg, 5Kg and 25kg containers.

Crystic® Polyester Pigment Paste should be stored in its original container, under cover, and out of direct sunlight. These must be kept closed and airtight. It is recommended that the storage temperature should be less than 25°C and the product should not be frozen. Storing the product outside of these conditions may affect the properties of the product and reduce its shelf life. Ideally, containers should be opened only immediately prior to use. The contents of containers should be stirred thoroughly before use. Material should be used within 12 months from date of production.

Health and Safety

Read and understand separate Material Safety Data Sheet before using this product. Unsaturated polyester products release heat when they cure in bulk.

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All information on this data sheet is based on laboratory testing and is not intended for design purposes. Scott Bader makes no representations or warranties of any kind concerning this data. Due to variance of storage, handling and application of these materials, Scott Bader cannot accept liability for results obtained. The manufacture of materials is the subject of granted patents and patent applications; freedom to operate patented processes is not implied by this publication.

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