

PIGMENT DISPERSIONS

Key Features

- High Quality Pigment Dispersion
- Triple Milled for small particle size
- Vibrant colours
- Easy to use
- Minimal impact on resin properties



Product Description

Very high quality West & Senior epoxy dispersion pigment available in the following colours:

- White
- Black
- Dust Grey
- Ivory
- Emerald Green
- Motorway Blue
- Lemon Yellow
- Tangerine Orange
- Signal Red
- Chesnut Brown

All West & Senior pigment dispersions are made the very highest quality with pigments triple milled to reduce them to the finest particle size. Smaller particles means more vibrant colours from less pigment, improving the appearance of pigmented parts whilst minimising the performance reduction of the resin caused by pigmentation.

You must use the correct pigment for the resin type you are using - eg a PU resin needs a PU pigment, a polyester resin needs a Polyester pigment and an epoxy resin needs an epoxy pigment.

This is because the pigment dispersions are a blend of pigment powders AND a small amount of base resin. Mixing the wrong pigment with a resin system may inhibit the resin cure and damage the end product.

We stock pigment dispersions in the above colours for the following resin types:

- Polyester Resins
- Polyurethane Resins
- Epoxy Resins

With the range of pigments that we carry, you can mix them together to achieve just about any colour you might need.

Why a Dispersion?

Pigment dispersions (pastes) should always be used when pigmenting resins rather than pigment powder because the rigorous milling and mixing process during manufacture ensures that the tiny pigment particles are fully dispersed into a small amount of carrier resin, getting the very most from their colour.

When a dispersion is then added to the bulk of the epoxy it blends in easily, ensuring that the pigment is thoroughly mixed through the resin (rather than staying in lumps).

Because the dispersion is actually a mix of resin and pigment already, it is essential that the correct dispersion type is used to pigment each specific resin type. For example, epoxy should only ever be pigmented using epoxy dispersion pigment.

How to Use

Pigment Dispersions are a chemical product for professional use. It is essential to read and understand the safety and technical information before use.

Follow the guidelines for safe use outlined in the SDS which include the use of appropriate hand and eye protection during mixing and use.

Use to add solid colour to laminating resins, gelcoats, electrical potting resins and casting resins.

A pigment ratio of 5-10% should be sufficient to add solid opaque colour in most applications. When adding less than the recommended amount, the intensity of the colour will be reduced.

If the pigment is being added to a resin which has a background colour already (eg our FastCast resin for example) then reducing the amount of pigment will affect the shade because it will allow the background colour to contribute to the final shade; i.e. less pigment in a light coloured resin will result in a lighter final shade.

In a clear resin, it's slightly different because there isn't a background colour. The less pigment you add, the more translucent the resin mix will become meaning you'll start to be able to see through the pigmented resin or gel. If there is a coloured substrate underneath then the colour would start to be affected by that.

Mixing Instructions

The pigment ratio is based on the total weight of the resin AND hardener. However, for mixing purposes we always recommend adding the pigment to the resin part BEFORE adding the hardener to allow you plenty of time to properly mix, so that means you will just need to plan ahead slightly so you know what your total resin and hardener mix will weigh.

The quantity of resin used in the pigment dispersions is very small and as such when the pigment is mixed into another resin, the additional amount of resin from the pigment is very small and in practical terms insignificant. As such you do not normally need to account for it within the mixing ratio calculations.

Weigh or measure the exact correct ratio of resin and pigment into a straight sided container. Using a suitable mixing stick begin to mix the resin and pigment together to combine them completely.

Spend at least one minute mixing the resin and pigment together, paying particular attention to the sides and base of the container.

Once thoroughly mixed, you are then ready to measure out accurately the correct amount of hardener/catalyst and mix it with the resin in accordance with the manufacturers instructions.

Transport and Storage

The pigment dispersion should be kept in a tightly sealed container during transport and storage. The pigment dispersion should be stored in ambient conditions of between 10°C (50°F) and 25°C (77°F).

When stored correctly, the pigment dispersion will have a shelf-life of 12 months. Although it may be possible to use the pigment after a longer period, a deterioration in the performance of the pigment may occur.

Pay particular attention to ensuring that containers are kept tightly sealed.

Disclaimer

This data is not to be used for specifications. Values listed are for typical properties and should not be considered minimum or maximum.

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Easy Composites Ltd

Unit 39, Park Hall Business Village, Longton, Stoke on Trent, Staffordshire, ST3 5XA, United Kingdom.

Tel. +44 (0)1782 454499, Fax. +44 (0)1782 596868, Email sales@easycomposites.co.uk, Web www.easycomposites.co.uk