

## OLDOPAL-UP Pigment Paste

Polyester Pigment Paste

Prod. No. 7309999

**Product description** OLDOPAL-UP Pigment Pastes are made of high quality ground pigments in low monomer UP resins. They are distinguished by weather and light fastness, providing optimal solutions for any type of application.

All of the pigments used here meet Directive 2002/95/53/EC, including all amending acts and decrees, as well as the End of Life Vehicles Directive 2000/53/EC which entered into force on September 18, 2000.

**Applications** OLDOPAL-UP Pigment Pastes are suitable for tinting gelcoats and topcoats as well as laminating and casting resins on a UP and VE base.

Specifications / technical data	Property	Test method	Value	Unit
	Density at 20 °C	DIN 53 217/2	approx. 1.10 - 2.40	g/ml
	Viscosity at 20 °C			free-flowing
	Styrene content		0.0 - 25.0	%
	Flash point	DIN 53 213	+ 32.0 - + 65.0	°C

**Directions for use** OLDOPAL-UP Pigment Pastes should be gently stirred before using. They can be used in all OLDOPAL-Gelcoats and Topcoats up to a concentration of 20 %. However, you should make sure that the selected concentration achieves the desired hiding power.

The use of the same pigment paste in different base gelcoats or resins does not always produce the exact same shade of colour. It should also be remembered that there may be a change in viscosity and reactivity when pigment pastes are added. OLDOPAL-UP Pigment Pastes may also be used in laminating, injection or casting resins, but a trial is recommended first. OLDOPAL-UP Pigment Pastes should never be diluted with styrene or other solvents before they are used.

**Note:** **Composition**

OLDOPAL-UP Pigment Pastes are made of high quality organic and inorganic pigments that are ground into special unsaturated polyester resins. Organic pigments used are, e. g. azo pigments, phthalocyanines and chinacridones; inorganic e.g. titanium dioxides, iron oxides and chromium oxides (Cr III).

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OLDOPAL-UP Pigment Pastes are free of mercury, lead, cadmium and chromates (CrVI). As opposed to dyes, pigments are not soluble in application mediums or water as well as most solvents, acids and lyes. As far as the azo pigments mentioned above are concerned, this means that they are not physiologically available when properly worked and therefore the respective coupling component does not present an immediate risk. Only when processing temperatures are higher than 200 °C is it possible for certain yellow pigments to decompose. Please see the corresponding Safety Data Sheets that are available for each shade of colour.

## Fastness

All of the pigments we use have already been tested by the manufacturer in different binder systems. With the basic colours, a light fastness between 7 and 8 on the 8-step wool colour scale and weather fastness between 4 and 5 is mostly achieved compared to the 5-step grey scale.

Evaluation is carried out according to DIN 54003. Every new pigment is additionally tested in an extensive qualification procedure which also includes compatibility, accelerated and outdoor weathering as well as abrasion resistance in cured UP resin. On the basis of our experience, we can advise you on suitable pigmentation for your specific requirements concerning fastness, for example, pigmentation for gelcoats subjected to chemical loads or abrasion resistant gelcoats.

## Colour matching and colorimetry

An important advantage of our OLDOPAL-UP Pigment Pastes is that the basic colours cover the complete colour range which makes it possible to formulate practically any colour desired.

With the aid of our modern spectrophotometer, we are able to consistently measure, control and calculate what the trained eyes of our colour specialists see. This is indispensable, particularly when it comes to quality control, because the human eye is not able to perceive differences in colour as consistently as a spectrophotometer.

When it comes to assessing a new colour, however, the visual impression a human has is often the deciding factor of whether this particular shade of colour exactly matches the sample. One of the reasons for this is the

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difference in the way the human eye and a machine perceive colour. Slight deviations in the pastel range, which humans can sensitively discern, can be reproduced exactly with our CIElab System which we use to formulate and control our pigment pastes. In the brilliant, intensively coloured range, e.g. fire red or emerald green, similarly slight deviations can be measured which are not perceptible to the human eye.

## Storage/Handling

This product must be stored cool in closed containers, protected from sunlight. Shelf-life is at least 6 months in unopened, original containers stored up to a temperature of 20 °C. Check the colour before using.

Note: The Information given above is based on our current state of knowledge and experience. In view of the many factors that may influence working conditions and the application of our products, the user is not relieved from carrying out his own tests and experiments. No legally binding warranty of certain properties or suitability for a particular purpose can be derived from this information. It is the responsibility of the receiver or user of our products to observe proprietary rights as well as existing laws and regulations. The latest version of the corresponding EU Safety Data Sheet must also be observed.

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