

AltroColor P 4600 Color Pastes are based on a vegetable oil based on renewable raw materials and have been developed particularly for the coloring of polyurethane systems. This color paste series stands out for its high color intensity. Furthermore, the formulation ingredients of this color paste series comply with different regulations (see page 2).

Description

As our **AltroColor P 4600 Color Pastes Series** are based on a reactive/crosslinkable binder, a full integration into your polyurethane system is ensured.

Therefore, the **AltroColor Color Pastes** have no or only a little influence on the Shore hardness (depending on the type of hardener/variant used) nor on the other mechanical and chemical properties.

Chemical basis

- Vegetable oil based on renewable raw materials
- OH value: 80 - 130 mg KOH/g (depending on the pigment content and/or color shade)

Incorporation

We recommend adding the **AltroColor Color Pastes** to the component **A** and to homogenizing thoroughly with a suitable stirrer.

Recommended dosages (related to component A)

Normal, covering opaque applications	5.0 %
Transparent semi-transparent applications	0.5 to 2.5 %
Max. dosage	10.0 % (consider OH value)

Form of delivery

AltroColor Color Pastes are available as pre-formulated color shades (e.g. RAL Classic, RAL Design, NCS etc.) or as mono-pigmented pastes for mixing systems.

Further color shades, also made to customers' sample, are available on request. If desired, we also develop further modifications, which are individually adapted to your process and system conditions.

Packaging

250 g | 1 kg | 5 kg | 25 kg | 200 kg | 1000 kg

Storage | shelf life

We recommend keeping the material cool and dry in tightly closed original receptacles at temperatures of 15 - 25 °C. When duly stored, the material can be used for 12 months. Before using the color pastes, stir up the content of the receptacle thoroughly. After use, close the receptacle again.

Legislation | Regulations

All formulation ingredients of the **AltroColor Colour Pastes of series P 4500** are **conform** to the following recommendations and/or guidelines and regulations:

- *AgBB – evaluation scheme for VOC from building products; state June 2012*
Health evaluation of the emissions of volatile organic compounds (VOC and SVOC) from building products
- Recommendation of the German Environment Agency (Umweltbundesamt – UBA) dated 7th of March, 2016 (draft)
Guideline for the hygienic assessment of organic coatings in contact with drinking water (coating guideline)
- BfR recommendations (Federal Institute for Risk Assessment); edition February 2015 (formerly "Plastics Recommendations")
IX. Colorants for Plastics and other Polymers Used in Commodities (on demand)
- FDA (Food and Drug Administration) dated 1st of April, 2018
Colorants for Polymers CFR 21 § 178.3297 (on demand)

Description	Color Index ⁽¹⁾	T _{max.} ⁽²⁾	Lightfastness ⁽³⁾	Weather fastness ⁽⁴⁾	
P 4601	white	[IO] - PW 6	> 300 °C	8 8	5 5
P 4602	oxide black	[IO] - PBk 11	> 300 °C	8 8	5 5
P 4603	oxide yellow	[IO] - PY 42	180 °C	8 8	5 5
P 4604	oxide red	[IO] - PR 101	300 °C	8 8	5 5
P 4605	chrome green	[IO] - PG 17	> 300 °C	8 8	5 5
P 4606	ultramarine blue	[IO] - PB 29	> 300 °C	8 8	5 4-5
P 4607	black	[OR] - PBk 7	300 °C	8 8	5 4-5
P 4608	light-yellow	[IO] - PY 184	200 °C	8 8	5 5
P 4609	lemon yellow	[OR] – PY 74	160 °C	6-7 6	3 2-3
P 4610	yellow	[OR] - PY 83	200 °C	6-7 6	3 2-3
P 4611	blue PB 15:3	[OR] - PB 15:3	300 °C	8 8	5 4-5
P 4612	red PR 254	[OR] - PR 254	280 °C	8 8	5 4-5
P 4613	green	[OR] - PG 7	300 °C	8 8	5 4-5
P 4614	pink	[OR] - PR 122	300 °C	7-8 8	4 4-5
P 4615	violet	[OR] – PV 23	280 °C	8 7-8	4-5 4
P 4616	flame red	[OR] - PR 48:3	240 °C	7 6	4 3-4
P 4617	orange	[IO] – PO 72	290 °C	8 7-8	8 7-8

(1) [IO] inorganic; [OR] organic

(2) All indicated values relating to thermal stability, light fastness and weather fastness were adopted from the pigment producer and are to be regarded as references only. We strongly recommend carrying out tests on your own!

(3) Lightfastness [full tone | brightening]: evaluation as per 8-stage blue scale: 1 - very bad | 8 - excellent

(4) Weather fastness [full tone | brightening]: evaluation as per 5-stage grey scale: 1 - very bad | 5 - excellent

Measure of precaution

With the aid of the current safety data sheets, which contain physical, ecological, toxicological and other data relating to safety, the user can inform himself on the safe handling and storage of the products.

Our technical service - in words, in writing or by trials - is given according to the current state of our knowledge. It does however not relieve the customer / user from the duty to check by himself if the products supplied by us are suitable for the intended processes and purposes. Application, use and processing of the products take place beyond our control possibilities and lie therefore exclusively in the area of responsibility of the processor. Any existing property rights of third parties are to be considered. We guarantee the perfect quality of our products in accordance with our general terms and conditions of business. When handling our products you have to observe the legal rules and the rules for the industrial hygiene. As for the rest, we refer to the corresponding safety data sheets.

• 2019-03-12.2 / 13 / LW-W •

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