

Pigment pastes POLYMER L (Technical Conditions 2463-010-49630959-05)

Purpose

POLYMER L coloring pigment paste is designed to tint PU foam, polyurea, one- and two-component polyurethane systems.

Special conditions

Stir paste thoroughly before application. Coloring paste should be applied after testing for compatibility with the base material. For the product to be evenly tinted, first mix the necessary amount of color paste with some material. Add the resultant mixture to the remaining material, mix it all together thoroughly until the mass becomes homogeneous in terms of color. Important! Two-component systems require adding the paste to the basic material. The appearance and shade of the tinted material depend on the material itself and the processing (application) method. These features reach the final form only after the tinted material becomes completely hard.

Maximum amount of color paste: 3% from A component (polyol) weight. For labeling purposes, amount of paste totals 0,1-0,5% from component A. Component B needs to be recalculated considering the hydroxyl number of the color paste. Higher dosage amounts may cause product defects.

Composition

- pigment;
- polyether;
- functional additives.

Specifications

Appearance	Viscous or liquid colored opaque mass
Brookfield viscosity, cPs, 25°C, spindle 4, speed 100	1000 – 3500
Particle size (not more), µm	20
Freeze thaw resistance, cycles	5

Packaging

Metal can: 1 l, 5 l, 20 l.

Storage conditions

Color paste shall be stored in tightly closed containers away from heating devices under temperature of $\pm 40^{\circ}\text{C}$ and away from direct sunlight. If frozen, defrost the paste under room temperature and thoroughly mix it to reach homogeneity. The paste is water absorbing and needs to be kept away from moisture.

Warranty shelf life

36 months from the date of manufacture in unopened packaging of the manufacturer.

Terms of transportation

Color paste can be transported in factory packing by all vehicle types (in covered wagons, train cars, etc.), if there is no impact of atmospheric factors under $\pm 40^{\circ}\text{C}$. Under 0°C , the paste shall be transported for the period not exceeding one month. The product does not apply to dangerous goods. Exception code is not required.

Recycling

The container and remnants of paste shall be disposed by authorized waste neutralization companies.

Safety

The paste is flammable. The works shall be conducted in ventilated rooms. Operators shall use hands and respiratory personal protective equipment. If exposed to eyes or skin, rinse with plenty of warm water. Avoid spillage to water and soil.

Certificates

Registration certificate №RU.77.01.34.008.E.005966.08.13 (09/08/2013)

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Code	Color	Code RAL ⁴	Pigment	Pigment content, %	Specific gravity ¹ , g/cm ³	Hydroxyl number, mg KOH/g	Resistance to ²						
							Light (full shade)	Light (tint shade)	Weather	Temperature, °C	Acid	Alkali	Solvent
Inorganic pigment													
PL.K.1310	White	9003	PW 6	50	1,51-1,67	49,5-64,4	8	8	5	200	5	5	5
Organic pigment													
PL.A.1301.1	Yellow	1018	PY 13	20	1,05-1,16	73,1-95	7	7	4	200	5	5	4-5
PL.O.1313	Orange	2004	PO 13	20	1,04-1,14	76,1-98,9	5	5	2-3	180	5	4-5	3-4
PL.QNM.1326.1	Red NM	3020	PR 254	20	1,04-1,14	73,1-95	7-8	7-8	4-5	220	5	5	3-5
PL.Q.1318.1	Red	3028	PR 53:1	25	1,07-1,19	73,1-95	5	5	4-5	160	1	4	2-4
PL.D.1307.1	Green	6026	PG 7	20	1,06-1,18	73,1-95	8	7	4-5	290	5	5	4-5
PL.EG.1308.1	Blue G	5017	PBl 15:3	20	1,05-1,15	73,1-95	7-8	7-8	4-5	280	5	5	5
PL.N.1312	Violet	5022	PV 23	10	0,99-1,09	87,5-113,7	8	7	5	250	5	5	5
PL.B.1305	Black	9005	PBk 7	27	1,08-1,19	64-83,2	8	8	5	200	5	5	5
PL.Bl.1306.1	Black l	9005	PBk 7	27	1,12-1,23	-	8	8	5	200	5	5	5

Resistance of pigments to various influences measured on the following scales:

-Light fastness is measured on an eight step blue scale (ISO 105-B01), where 1 – poor light fastness, 8 – excellent light fastness;

-Weather resistance is measured on a five step gray scale (ISO 20105-A02), where 1 – poor weather resistance, 5 – excellent weather resistance;

-Resistance to acids, alkalis and solvents is measured on an five step gray scale (ISO 20105-A02), where 1 – poor resistance, 5 – excellent resistance.

¹ – Specific gravity of pigment pastes may vary depending on the batch. The index of specific gravity is not standardized and its value is approximate.

² – The data about resistance to various influences is obtained from pigment suppliers. The weather resistance of the painted coating and the product significantly depends on the material being tinted, the quality of the coating itself, compliance with the painting and application technology, and the intensity of solar radiation in the region where the coating and the product are used.

³ – “d” means the possibility of darkening of the coating due to weathering.

⁴ – Correspondence of the full-strength color to RAL is approximate.

We recommend to use only pigment pastes containing inorganic pigments in high alkaline environments.

In connection with the further development of technology and product improvement, we reserve the right to make any changes without prior notice.