

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

Purpose

POLYMER O coloring pigment paste is designed to tint solvent-borne polyvinyl chloride, polyurethane, epoxide, organic-silicon, pentaerythritolmodified phthalic resin, nitrocellulose and other 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. Recommended amount of color paste: up to 6% from the total weight of material (base+hardener).

Composition

- pigment;
- flexibilizer;
- functional additives.

Specifications

Appearance	Viscous or liquid colored opaque mass
Brookfield viscosity, cPs, 25°C, spindle 3, speed 20	Basic colors 1000–5000. Fluorescent colors 2000–7000 Metallic, pearl 3000–15000
Particle size (not more), μm	20
Freeze thaw resistance, cycles	5

¹ – at the request of the customer pastes can be made with a higher or lower viscosity.

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. The paste can be frozen for five times. Refrozen and thoroughly mixed, the paste shall fully retain its specifications.

Warranty shelf life

Pigment pastes containing organic and inorganic pigments — 60 months from the date of manufacture in unopened packaging of the manufacturer.

Pigment pastes containing deco pigments — 12 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 atmo-spheric factors under $\pm 40^{\circ}\text{C}$.

Recycling

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

Safety

The paste is fire-safe and explosion-safe. 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.18.YU. 04.008.E.000011.02.14 (04/02/2014)

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Code	Color	Code RAL ⁴	Pigment	Pigment content, %	Specific gravity, g/cm ³ ¹	Resistance to ²							Substance of presence		Participation in the composi-tion of the coloring systems		
						Light (full shade)	Light (tint shade)	Weather	Tem- pera- ture, °C	Acid	Alkali	Solvent	Plum- bum	Hexava- lent chromium Cr(VI)	Palizh PO-600 PVC	Palizh PO-610 PUR	Palizh PO-630 Epoxy
Inorganic pigment																	
PO.K.610.2	White	9003	PW 6	67	1,74-1,93	8	8	5	200	5	5	5			√	√	√
PO.X.672.2	Lemon	1016	PY 184	50	1,59-1,76	8	8	5	200	5	5	5			√		
PO.AL.602.2	Yellow oxide	1017	PY 42	40	1,28-1,41	7-8	7-8	4-5	160	4	4	4-5			√	√	√
PO.ANP.630.2	Yellow NP	1023	PY 34	50	1,52-1,68	7-8	7-8	4	180	4	2	5	√	√	√	√	√
PO.ONP.631.2	Orange NP	2004	PR 104	50	1,52-1,68	8	7-8	5	220	3	3	5	√	√	√	√	√
PO.QL.619.2	Red oxide	8012	PR 101	55	1,83-1,95	7-8	7-8	5	350	4-5	4	5			√	√	√
PO.DL.632.2	Green oxide	6002	PG 17	70	1,29-1,42	7-8	7-8	5	600	5	5	5					
PO.UK.685.2	Ultramarine concentrated	5002	PBl 29	70	1,60-1,75	7-8	7-8	4-5	180	2-3	4-5	5			√		
PO.U.623.2	Ultramarine	5002	PBl 29	60	1,43-1,58	7-8	7-8	4-5	180	2-3	3	5					
Organic pigment																	
PO.ANM.625.2	Yellow NM	1021	PY 62	20	1,00-1,10	7-8	7	4-5	210	5	5	3-5					
PO.A.601.2	Yellow	1021	PY 13	10	0,97-1,07	7	6-7	4-5	180	5	5	4-5					
PO.ATK.624.2	Golden concentrated	1028	PY 191	40	1,15-1,20	7	6-7	4-5	300	5	5	5			√	√	√
PO.O.613.2	Orange	2004	PO 13	20	1,00-1,10	5	5	2-3	180	5	4-5	3-4					
PO.Q.618.2	Red	3028	PR 53:1	20	0,99-1,09	5-6	5	4	160	1	4	2-5					
PO.QNM.626.2	Red NM	3020	PR 254	20	1,00-1,10	7-8	7-8	4-5	220	5	5	3-5			√		√
PO.QS.675.2	Red lightfast	3020	PR 112	20	0,98-1,09	6-7	6	4	90	5	5	3-4				√	
PO.P.615.2	Purple	4010	PR 122	10	0,96-1,06	7-8	7-8	4-5	200	5	5	3-5			√	√	√
PO.QM.617.2	Raspberry	3003	PR 57:1	20	1,00-1,10	5-6	5	4	160	1	4	2-5					
PO.D.607.2	Green	6026	PG 7	20	1,03-1,14	8	7	4-5	290	5	5	5			√	√	√
PO.EG.608.2	Blue G	5017	PBl 15:3	13	0,98-1,08	7-8	7	4-5	280	5	5	5					
PO.ER.609.2	Blue R	5005	PBl 15:1	20	1,00-1,11	7-8	7-8	4-5	270	5	5	5			√	√	√
PO.N.612.2	Violet	5022	PV 23	11	0,97-1,07	8	8	5	250	5	5	5			√	√	√
PO.Gr.673.2	Gray	9004	PBk 7	3	0,98-1,02	8	8	5	200	5	5	5			√		√
PO.B.605.2	Black	9005	PBk 7	12	0,98-1,08	8	8	5	200	5	5	5			√	√	√
PO.BK.606.2	Black concentrated	9005	PBk 7	17,5	1,00-1,10	8	8	5	200	5	5	5					
PO.BKS.671.2	Black superconcentrated	9005	PBk 7	33	1,11-1,22	8	8	5	200	5	5	5					
Deco pigment																	
POF.X.654	Lemon fluorescent	-	-	50	-	4	-	1	200	3	3	4-5					
POF.O.652	Orange fluorescent	-	-	50	-	3	-	1	200	3	3	4-5					
POF.Q.657	Red fluorescent	-	-	50	-	4	-	1	200	3	3	4-5					
POF.R.653	Pink fluorescent	-	-	50	-	3	-	1	200	3	3	4-5					
POF.P.660	Purple fluorescent	-	-	50	-	4	-	1	200	3	3	4-5					
POF.N.659	Violet fluorescent	-	-	50	-	4	-	1	200	3	3	4-5					
POF.E.658	Blue fluorescent	-	-	50	-	4	-	1	200	3	3	4-5					
POF.DG.651	Green fluorescent	-	-	50	-	4	-	1	200	3	3	4-5					
POP.S.664	Silver pearl	-	PM 1	35	-	7-8	-	5	200	1	2	4					
POM.SE.665	Silver Eu	-	PM 1	35	-	7-8	-	5	200	1	2	4					
POM.AT.670	Gold metallic	-	PM 2	50	-	7-8	-	4-5	200	1	1	4					

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 it is 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.