

PLAM OXID

Powered oxides

DESCRIPTION AND USE

Plam Oxid Isoplam® are special UV-stable powder dyes used in construction for coloring concrete or hardeners.

FIELDS OF USE

Plam Oxid Isoplam® is used for multiple purposes:

- as an additive for coloring concrete in mass;
- as a pigment for coloring cement-based premixes in general;
- as a coloring additive in mortars and plasters of various types.

DOSAGE

When used as an additive in concrete, the suggested consumption of Plam Oxid Isoplam® varies from 1 to 4% on the weight of the cement, depending on the desired color tone and the type of cement used. The dosage varies mainly according to the fluidity of the dough: the more fluid the dough, the lighter the color will be.

To create the concrete mix, it is advisable to respect the following order of insertion of the ingredients:

- about 15% of the total water;
- inert;
- Plam Oxid;
- cement;
- remaining water and additives.

TECHNICAL FEATURES

PLAM OXID YELLOW

Description			Test method
Typology	Iron oxides		
Fe•O•	%	86,2	ISO 1248
Volatile material at 105°C	%	0,85	ISO 787-2
Oil absorption	g/100 g	30,5	ISO 787-5
Residue on 320 mesh	%	0,11	ISO 787-7
Water soluble salts	%	0,14	ISO 787-3
PH value		3,3	ISO 787-9
Dye strength	%	101,03	ISO 55913

PLAM OXID ORANGE

Description			Test method
Typology	Iron oxides		
Fe•O•	%	88,7	ISO 1248
Volatile material at 105°C	%	0,7	ISO 787-2
Oil absorption	g/100 g	25,2	ISO 787-5
Residue on 320 mesh	%	0,13	ISO 787-7
Water soluble salts	%	0,31	ISO 787-3
PH value		4,1	ISO 787-9
Conductivity	µs/cm	-	ISO 787-14
Dye strength	%	101,25	ISO 55913

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PLAM OXID RED

Description			Test method
Typology	Iron oxides		
Fe•O•	%	96,00	ISO 1248
Volatile material at 105°C	%	1,0	ISO 787-2
Oil absorption	g/100 g	15-25,0	ISO 787-5
Residue on 0,045 mm mesh	%	0,3	ISO 787-7
Water soluble salts	%	0,3	ISO 787-3
PH values		4,1	ISO 787-9
Conductivity	µs/cm	-	ISO 787-14
Dye strength	%	100±5	ISO 787-24

PLAM OXID WHITE

Description			Test method
Typology	Titanium dioxide		
TiO•	%	94	ISO 1248
Volatile material at 105°C	%	0,4	ISO 787-2
Oil absorption	g/100 g	19	ISO 787-5
Residue on 45 µm	%	0,041	ISO 787-7
Water soluble salts	%	0,3	ISO 787-3
Dispersion in water	µm	17	
PH value		7,2	ISO 787-9
Conductivity	µs/cm	-	ISO 787-14
Dye strength	%	115	ISO 55913
ZrO•	%	0,4	ISO 1248
Al•O•	%	3,7	ISO 1248
L value		98,25	
A value		-0,21	
B value		1,28	
•E value		0,42	
Whiteness		97,4	

PLAM OXID BLU

Description			Test method
Typology	Composition of polysulphurized sodium aluminosilicate Na ₈₋₁₀ Al ₆ Si ₆ O ₂₄ S ₂₋₄ Ultramarine Blue		
Oil absorption	g/100 g	23-33	ISO 787-5
Sieve residue (80 mesh)	%	0,8 max	ISO 787-7
Water soluble salts	%	1,5 max	ISO 787-3
PH value		7-8	ISO 787-9
Humidity	%	1 max	ISO 787-2
Apparent density	g/ml	0,6-0,7	ISO 787-11
Absolute density	g/ml	2,3 ca	ISO 787-10
Light stability (scale 1-8)		8	
Stability to acids		Restricted	
Stability to alkali		Good	
Stability to heat		300°C	

PLAM OXID BROWN

Description			Test method
Typology	Iron oxides		
Fe•O•	%	>88	ISO 1248
Volatile material at 105°C	%	<1	ISO 787-2
Oil absorption	g/100 g	15-25	ISO 787-5
Water absorption	g/100 g	<0,5	ISO 787-3
Residue on 325 mesh	%	<0,3	ISO 787-7

PH value		5-8	ISO 787-9
Dye strength	%	95-105	ISO 787

PLAM OXID BLACK

Description			Test method
Typology	Iron oxides		
Fe·O·	%	>95	ISO 1248
Volatile material at 105°C	%	<1,5	ISO 787-2
Oil absorption	g/100 g	15-25	ISO 787-5
Water absorption	g/100 g	<0,5	ISO 787-3
Residue on 325 mesh	%	<0,5	ISO 787-7
Water soluble salts	%	0,31	ISO 787-3
PH value		5-8	ISO 787-9
Dye strength	%	95-105	ISO 55913

PLAM OXID GREEN

Description			Test method
Typology	Chromium oxide		
Cr·O·	%	98,29	ISO 1248
Oil absorption	g/100 g	14,65	ISO 787-5
Water soluble salts	g/100 g	0,3	
Dye strength	%	100	ISO 55913
Residue on 325 mesh	%	0,04	ISO 787-7

PACKAGING AND SECURITY

Plam Oxid Isoplam® is supplied in 1 kg and 10 kg pots.
Consult the safety data sheet of the product before use.

IMPORTANT:

All the information contained in this sheet is based on the best practical and laboratory experiences. It is the customer's responsibility to verify that the product is suitable for the intended use. The manufacturer declines all responsibility for the results of incorrect applications. It is advisable to always carry out tests on small surfaces before application. This sheet replaces and cancels the previous ones.

The data can be changed at any time. We also remind you that Isoplam products are intended for professional use and that Isoplam provides periodic training for its customers who request it. Anyone who uses these products without being enabled does so at their own risk