

Starting Formulation

Pigment concentrates for solvent-borne systems

Pos.	Component	Supplier	Function	Kronos 2310	Bayferrox 3920	Bayferrox 120M	Novoperm Red F3RK70	Hostaperm Pink E
				Pigment supplier Kronos International	Lanxess	Lanxess	Clariant	Clariant
				PW 6	PY 42	PR 101	PR 170	PR 122
1	Laropal A 81 (60% solids, in PMA)	BASF	Binder	20.0	23.0	25.0	33.5	20.0
2	1-Methoxy-2-propyl acetate		Solvent	11.5	15.2	3.0	2.6	52.3
3	DISPERBYK-2150	BYK	Wetting & Dispersing	3.1	6.3	11.5	23.1	9.7
4	BYK-SYNERGIST 2100	BYK	Wetting & Dispersing					
5	BYK-SYNERGIST 2102	BYK	Wetting & Dispersing					
6	BYK-SYNERGIST 2105	BYK	Wetting & Dispersing				0.8	
7	GARAMITE-7305	BYK	Anti-settling	0.4	0.5	0.5		
8	Pigment & Color Index (see headline)	see headline	Pigment	65.0	55.0	60.0	40.0	18.0

Instructions

Premix position 1-7, add pigment and disperse (grind) well

Characteristic Data

% Additive dosage (solids on pigment)

DISPERBYK-2150	2.5	6.0	10.0	30.0	28.0
BYK-SYNERGIST 2100					
BYK-SYNERGIST 2102					
BYK-SYNERGIST 2105				2.0	

Pigment-binder ratio (solid : solid binder)

5.4 : 1	4.0 : 1	4.0 : 1	2.0 : 1	1.5 : 1
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Remark

- 1) Exchanging a solvent or a pigment in the formulation may change the viscosity!
- 2) The required grinding viscosity depends on the grinding equipment and must be adapted.

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Pos.	Component	Pigment supplier		Hostaperm Violet RL-NF Clariant	Heliogen Blue L7101F BASF	Heliogen Blue L7085 BASF	Heliogen Green L8730 BASF	Special Black 4 Orion Engineered Carbons
		Supplier	Function	PV 23	PB 15:4	PB 15:3	PG 7	PBk 7
1	Laropal A 81 (60% solids, in PMA)	BASF	Binder	36.0	33.5	45.2	42.1	52.1
2	1-Methoxy-2-propyl acetate		Solvent	38.1	34.5	21.4	18.0	3.7
3	DISPERBYK-2150	BYK	Wetting & Dispersing	11.0	11.5	13.9	15.9	19.2
4	BYK-SYNERGIST 2100	BYK	Wetting & Dispersing		0.5	0.5		
5	BYK-SYNERGIST 2102	BYK	Wetting & Dispersing				0.9	
6	BYK-SYNERGIST 2105	BYK	Wetting & Dispersing					
7	GARAMITE-7305	BYK	Anti-settling					
8	Pigment & Color Index (see headline)	see headline	Pigment	15.0	20.0	19.0	23.0	25.0

Instructions

Premix position 1-7, add pigment and disperse (grind) well

Characteristic Data

% Additive dosage (solids on pigment)

DISPERBYK-2150	38.0	30.0	38.0	36.0	40.0
BYK-SYNERGIST 2100		2.5	2.5		
BYK-SYNERGIST 2102				4.0	
BYK-SYNERGIST 2105					

Pigment-binder ratio (solid : solid binder)

0.7 : 1	1.0 : 1	0.7 : 1	0.9 : 1	0.8 : 1
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