

Starting point formulation – Pigment concentrates for solvent-borne systems with DISPERBYK-110 and DISPERBYK-2150

				Pigment	Kronos 2310	Ti-Pure R 960	Bayferrox 3920	Bayferrox 120 M	Novoperm Red F3RK 70	Hostaperm Pink E
				Supplier	Kronos International	Chemours	Lanxess	Lanxess	Sudarshan	Sudarshan
Position	Component	Supplier	Function	PW 6	PW 6	PY 42	PR 101	PR 170	PR 122	
1	Laropal A 81 (60 % solids, in PMA)	BASF	Binder	20.00	20.00	23.00	25.00	33.50	20.00	
2	1-Methoxy-2-propyl acetate		Solvent	11.50	11.50	13.60	3.00	3.40	52.30	
3	DISPERBYK-110	BYK	Wetting and dispersing	3.10	3.10	-	-	-	-	
4	DISPERBYK-2150	BYK	Wetting and dispersing	-	-	7.90	11.50	23.10	9.70	
5	BYK-SYNERGIST 2100	BYK	Wetting and dispersing	-	-	-	-	-	-	
6	GARAMITE-7305	BYK	Anti-settling	0.40	0.40	0.50	0.50	-	-	
7	Pigment (see headline)	See headline	Pigment	65.00	65.00	55.00	60.00	40.00	18.00	
Total				100.00	100.00	100.00	100.00	100.00	100.00	

Instructions

Premix position 1-6, add pigment and disperse (grind) well.

Characteristic data

Additive dosage (solids on pigment)

DISPERBYK-110	2.50 %	2.50 %	-	-	-	-
DISPERBYK-2150	-	-	7.50 %	10.00 %	30.00 %	28.00 %
BYK-SYNERGIST 2100	-	-	-	-	-	-

Pigment : binder ratio (solid : solid binder)	5.40 : 1	5.40 : 1	4.00 : 1	4.00 : 1	2.00 : 1	1.50 : 1
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Remark

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

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				Pigment	Hostaperm Violet RL-NF	Heliogen Blue L 7085	Heliogen Blue L 7101 F	Heliogen Green L 8730	Special Black 4
				Supplier	Sudarshan	Sun Chemical (DIC)	Sun Chemical (DIC)	Sun Chemical (DIC)	Orion Engineered Carbons
Position	Component	Supplier	Function	PV 23	PB 15:3	PB 15:4	PG 7	PBk 7	
1	Laropal A 81 (60 % solids, in PMA)	BASF	Binder	36.00	45.10	33.50	42.10	52.10	
2	1-Methoxy-2-propyl acetate		Solvent	38.00	21.50	34.50	17.90	6.70	
3	DISPERBYK-110	BYK	Wetting and dispersing	-	-	-	-	-	
4	DISPERBYK-2150	BYK	Wetting and dispersing	11.00	13.90	11.50	15.90	17.70	
5	BYK-SYNERGIST 2100	BYK	Wetting and dispersing	-	0.50	0.50	-	0.50	
6	GARAMITE-7305	BYK	Anti-settling	-	-	-	-	-	
7	Pigment (see headline)	See headline	Pigment	15.00	19.00	20.00	23.00	23.00	
Total				100.00	100.00	100.00	100.00	100.00	

Instructions

Premix position 1-6, add pigment and disperse (grind) well.

Characteristic data

Additive dosage (solids on pigment)

DISPERBYK-110	-	-	-	-	-
DISPERBYK-2150	38.00 %	38.00 %	30.00 %	36.00 %	40.00 %
BYK-SYNERGIST 2100	-	2.50 %	2.50 %	-	2.00 %
Pigment : binder ratio (solid : solid binder)	0.70 : 1	0.70 : 1	1.00 : 1	0.90 : 1	0.70 : 1

Remark

Exchanging a solvent or a pigment in the formulation may change the viscosity!
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Your local
contact

BYK-Chemie GmbH
Abelstraße 45
46483 Wesel
Germany
Tel +49 281 670-0

info@byk.com
www.byk.com

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