

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

Position	Component	Supplier	Function	Pigment		Bayferrox	Bayferrox	Novoperm	Hostaperm
				Kronos 2310 Kronos International	Ti-Pure R 960 Chemours	3920 Lanxess	120 M Lanxess	Red F3RK 70 Heubach	Pink E Heubach
				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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Position	Component	Supplier	Function	Pigment	Heliogen	Heliogen	Heliogen	Special
				Supplier	Hostaperm Violet RL-NF Heubach	Blue L 7085 Sun Chemical (DIC)	Blue L 7101 F Sun Chemical (DIC)	Green L 8735 Sun Chemical (DIC)
				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
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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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This issue replaces all previous versions.

