

Starting point formulation – Pigment concentrates for solvent-borne systems with DISPERBYK-2155

				Pigment	Tiona 595	Kronos 2064	Kronos 2160	Bayferrox 915	Novoperm Yellow HR 70	Hostaperm Yellow H4G	Sicopal Yellow L1100	Novoperm Orange HL 70
				Supplier	Tronox	Kronos International	Kronos International	Lanxess	Sudarshan	Sudarshan	Sun Chemical	Sudarshan
Position	Component	Supplier	Function	PW 6	PW 6	PW 6	PY 42	PY 83	PY 151	PY 184	PO 36	
1	Polyester resin (70 % solids, BuAc)		Resin	25.50	25.50	22.10	28.00	43.00	37.00	25.10	35.00	
2	Butyl acetate (BuAc)		Solvent	13.00	13.00	11.30	16.60	27.00	26.70	19.50	29.00	
3	DISPERBYK-2155	BYK	Wetting and dispersing	1.20	1.20	1.30	5.00	5.00	6.00	5.00	6.00	
4	BYK-SYNERGIST 2100	BYK	Wetting and dispersing	-	-	-	-	-	-	-	-	
5	GARAMITE-7305	BYK	Anti-settling	0.30	0.30	0.30	0.40	-	0.30	0.40	-	
6	Pigment	See headline	Color	60.00	60.00	65.00	50.00	25.00	30.00	50.00	30.00	
Total				100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	

Instructions

Premix position 1–5, add pigment and disperse (grind) well (beads are recommended).

Characteristic data

Additive dosage (solids on pigment)

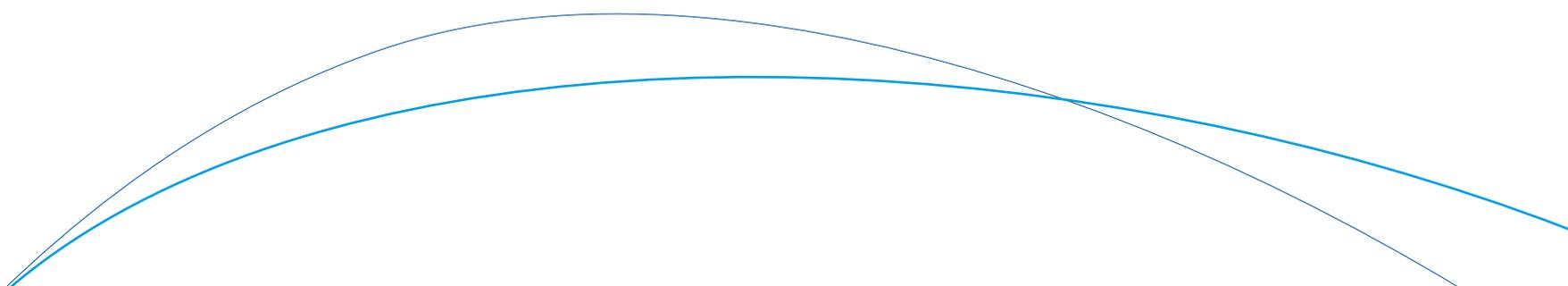
DISPERBYK-2155 2.00 % 2.00 % 2.00 % 10.00 % 20.00 % 20.00 % 10.00 % 20.00 %

BYK-SYNERGIST 2100 - - - - - - - - -

Pigment : binder ratio (solid : solid binder) 3.10 : 1 3.10 : 1 3.90 : 1 2.40 : 1 0.80 : 1 1.10 : 1 2.70 : 1 1.10 : 1

Remark

Changing the pigment or solvent 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 Irgazin Orange L 3250 HD	Bayferrox 130 M	Irgazin Red L 3670 HD	Irgazin Scarlet L 3550 HD	Cinquasia Magenta L 4400	Hostaperm Pink E	Hostaperm Violett RL-NF	Heliogen Blue L 6875 F
				Supplier Sun Chemical	Lanxess	Sun Chemical	Sun Chemical		Sudarshan	Sudarshan	Sun Chemical
Position	Component	Supplier	Function	PO 73	PR 101	PR 254	PR 255	PR 282	PR 122	PV 23	PB 15:2
1	Polyester resin (70 % solids, BuAc)		Resin	41.50	24.00	34.50	40.00	42.00	40.00	48.00	43.00
2	Butyl acetate (BuAc)		Solvent	26.00	13.80	28.00	27.50	33.00	36.60	35.00	31.00
3	DISPERBYK-2155	BYK	Wetting and dispersing	7.50	6.60	7.50	7.50	5.00	5.40	4.80	6.00
4	BYK-SYNERGIST 2100	BYK	Wetting and dispersing	-	-	-	-	-	-	0.20	-
5	GARAMITE-7305	BYK	Anti-settling	-	0.60	-	-	-	-	-	-
6	Pigment	See headline	Color	25.00	55.00	30.00	25.00	20.00	18.00	12.00	20.00
Total				100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Instructions

Premix position 1–5, add pigment and disperse (grind) well (beads are recommended).

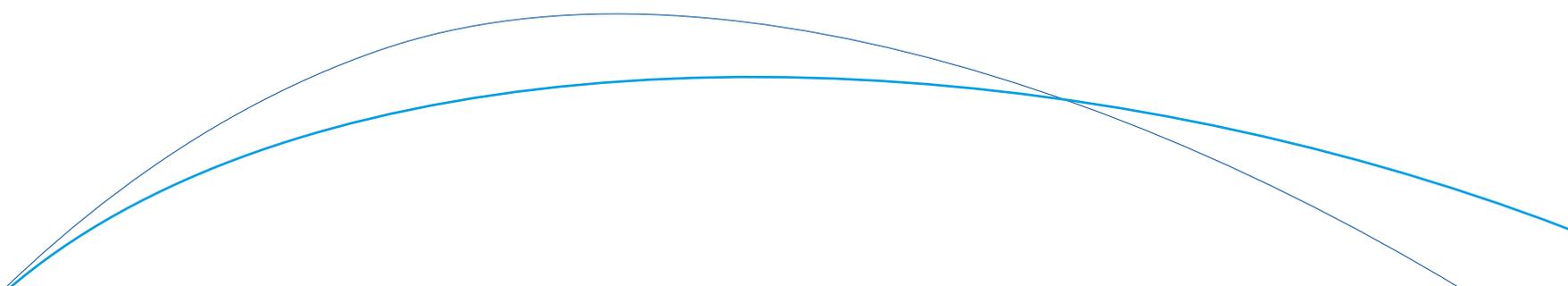
Characteristic data

Additive dosage (solids on pigment)

DISPERBYK-2155	30.00 %	12.00 %	25.00 %	30.00 %	25.00 %	30.00 %	40.00 %	30.00 %
BYK-SYNERGIST 2100	-	-	-	-	-	-	1.70 %	-
Pigment : binder ratio (solid : solid binder)	0.80 : 1	3.10 : 1	1.20 : 1	0.8 : 1	0.60 : 1	0.60 : 1	0.30 : 1	0.60 : 1

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Pigment	Heliogen Green L 8730	Special black 4 Powder	Raven 420
Supplier	Sun Chemical	Orion Engineered Carbons	Birla Carbon

Position	Component	Supplier	Function	PG 7	PBk 7	PBk 7
1	Polyester resin (70 % solids, BuAc)		Resin	38.00	39.50	42.80
2	Butyl acetate (BuAc)		Solvent	30.40	28.00	27.50
3	DISPERBYK-2155	BYK	Wetting and dispersing	8.10	10.50	7.70
4	BYK-SYNERGIST 2100	BYK	Wetting and dispersing	0.50	-	-
5	GARAMITE-7305	BYK	Anti-settling	-	-	-
6	Pigment	See headline	Color	23.00	22.00	22.00
Total				100.00	100.00	100.00

Instructions

Premix position 1–5, add pigment and disperse (grind) well (beads are recommended).

Characteristic data

Additive dosage (solids on pigment)

DISPERBYK-2155	35.00 %	40.00 %	35.00 %
BYK-SYNERGIST 2100	2.00 %	-	-

Pigment : binder ratio (solid : solid binder) 0.90 : 1 0.70 : 1 0.70 : 1

Remark

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