

Starting point formulation – Pigment concentrates for water-based systems with DISPERBYK-2018

Position	Component	Supplier	Function	Pigment							
				Kronos 2190	Ti-Pure R-900	Tioxide TR 81	Bayferrox 3920	Hansa Brilliant Yellow 2GX 70	Bayferrox 130 M	Hostaperm Pink E	
				Supplier	Kronos International	Chemours	Venator	Lanxess	Sudarshan	Lanxess	Sudarshan
				PW 6	PW 6	PW 6	PY 42	PY 74	PR 101	PR 122	
1	Water		Solvent	19.60	21.00	21.70	36.50	53.60	27.70	60.70	
2	Preservative		Preservative	0.10	0.10	0.10	0.10	0.10	0.10	0.10	
3	BYK-021	BYK	Defoamer	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
4	DISPERBYK-2018	BYK	Wetting and dispersing	4.30	2.90	2.20	7.40	5.80	6.20	8.70	
5	OPTIGEL-WX	BYK	Anti-settling	0.50	0.50	0.50	0.50	-	0.50	-	
6	Pigment	See headline	Color	75.00	75.00	75.00	55.00	40.00	65.00	30.00	
Total				100.00	100.00	100.00	100.00	100.00	100.00	100.00	

Instructions

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

Characteristic data

Additive dosage (solids on pigment)

Additive	Kronos 2190	Ti-Pure R-900	Tioxide TR 81	Bayferrox 3920	Hansa Brilliant Yellow 2GX 70	Bayferrox 130 M	Hostaperm Pink E
DISPERBYK-2018	3.00 %	2.00 %	1.50 %	7.00 %	7.50 %	5.00 %	15.00 %

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Position	Component	Supplier	Function	Pigment			
				PB 15:3	PB 15:4	PG 7	PBk 7
				Heliogen Blue L 7085	Heliogen Blue L 7101 F	Heliogen Green L 8730	Special Black 4
				Supplier Sun Chemical	Supplier Sun Chemical	Supplier Sun Chemical	Supplier Orion Engineered Carbons
1	Water		Solvent	57.90	54.30	54.30	71.70
2	Preservative		Preservative	0.10	0.10	0.10	0.10
3	BYK-021	BYK	Defoamer	0.50	0.50	0.50	0.50
4	DISPERBYK-2018	BYK	Wetting and dispersing	11.50	10.10	10.10	7.70
5	OPTIGEL-WX	BYK	Anti-settling	-	-	-	-
6	Pigment	See headline	Color	30.00	35.00	35.00	20.00
Total				100.00	100.00	100.00	100.00

Instructions

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

Characteristic data

Additive dosage (solids on pigment)

DISPERBYK-2018	PB 15:3	PB 15:4	PG 7	PBk 7
	20.00 %	15.00 %	15.00 %	20.00 %



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