

Starting point formulation – Pigment concentrates for water-based systems with DISPERBYK-199

Position	Component	Supplier	Function	Pigment Supplier								
				Kronos 2044 Kronos International	Kronos 2190 Kronos International	Kronos 2300 Kronos International	Kronos 2310 Kronos International	Kronos 2360 Kronos International	Ti-Pure R-706 Chemours	Ti-Pure R-900 Chemours	Ti-Pure R-931 Chemours	
				PW 6	PW 6	PW 6	PW 6	PW 6	PW 6	PW 6	PW 6	
1	Water		Solvent	28.90	16.60	16.00	15.50	14.70	17.00	16.60	25.90	
2	Preservative		Preservative	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	
3	BYK-1640	BYK	Defoamer	0.30	0.40	0.30	0.30	0.30	0.30	0.40	0.30	
4	DISPERBYK-199	BYK	Wetting and dispersing	4.10	3.80	2.80	2.80	2.80	2.80	3.80	4.10	
5	OPTIGEL-WX	BYK	Anti-settling	0.50	0.50	0.40	0.50	0.50	0.60	0.50	0.50	
6	ASP 170	BASF	Filler	-	-	-	-	-	-	-	-	
7	Blanc Fixe micro	Venator	Filler	-	-	-	-	-	-	-	-	
8	Pigment	See headline	Color	55.00	75.00	75.00	75.00	75.00	75.00	75.00	55.00	
9	BYK-1640	BYK	Defoamer	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	
10	Water		Solvent	10.90	3.40	5.20	5.60	6.40	4.00	3.40	13.90	
Total				100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	

Instructions

Premix position 1–5, add pigment/filler and disperse well (dissolver or beads are recommended), add position 9–10 while stirring.

Characteristic data

Additive dosage (solids on pigment)

DISPERBYK-199	3.00%	2.00%	1.50%	1.50%	1.50%	1.50%	2.00%	3.00%
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Also available as a biocide-free variant (see brochure B-AN 2).



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Position	Component	Supplier	Function	Pigment Supplier							
				Tiona 595 Tronox	Tiona 696 Tronox	Tronox CR-813 Tronox	Tronox CR-826 Tronox	Tronox CR-828 Tronox	Tioxide R-TC90 Venator	Tioxide TR 81 Venator	Tioxide TR 85 Venator
				PW 6	PW 6	PW 6	PW 6	PW 6	PW 6	PW 6	PW 6
1	Water		Solvent	18.00	17.00	33.90	17.40	16.60	17.40	16.60	18.00
2	Preservative		Preservative	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
3	BYK-1640	BYK	Defoamer	0.30	0.30	0.30	0.30	0.40	0.30	0.40	0.30
4	DISPERBYK-199	BYK	Wetting and dispersing	2.80	2.80	4.10	2.80	3.80	2.80	3.80	1.90
5	OPTIGEL-WX	BYK	Anti-settling	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
6	ASP 170	BASF	Filler	-	-	-	-	-	-	-	-
7	Blanc Fixe micro	Venator	Filler	-	-	-	-	-	-	-	-
8	Pigment	See headline	Color	75.00	75.00	55.00	75.00	75.00	75.00	75.00	75.00
9	BYK-1640	BYK	Defoamer	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
10	Water		Solvent	3.10	4.10	5.90	3.70	3.40	3.70	3.40	4.00
Total				100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Instructions

Premix position 1–5, add pigment/filler and disperse well (dissolver or beads are recommended), add position 9–10 while stirring.

Characteristic data

Additive dosage (solids on pigment)

DISPERBYK-199	1.50 %	1.50 %	3.00 %	1.50 %	2.00 %	1.50 %	2.00 %	1.00 %
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Position	Component	Supplier	Function	Pigment		Pigment		Pigment		Pigment	
				Supplier	Supplier	Supplier	Supplier	Supplier	Supplier		
				Hansa Brilliant Yellow 2GX 70 Heubach	Chromaphtal Yellow 3G BASF	Paliotol Yellow L 0960 HD BASF	Paliotol Yellow L 0962 HD BASF	Novoperm Orange HL 70 Heubach	Cinilex DPP Orange SJ1C Cinic	Bayferrox 105 M Lanxess	Bayferrox 110 M Lanxess
				PY 74	PY 93	PY 138	PY 138	PO 36	PO 73	PR 101	PR 101
1	Water		Solvent	28.90	29.90	29.90	30.80	27.90	28.00	24.50	24.40
2	Preservative		Preservative	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
3	BYK-1640	BYK	Defoamer	0.40	0.40	0.70	0.40	0.40	0.40	0.40	0.40
4	DISPERBYK-199	BYK	Wetting and dispersing	15.00	20.00	20.00	16.30	17.50	17.50	9.60	9.00
5	OPTIGEL-WX	BYK	Anti-settling	0.40	-	0.30	-	0.30	0.30	0.50	0.50
6	ASP 170	BASF	Filler	-	-	-	8.00	-	-	-	-
7	Blanc Fixe micro	Venator	Filler	15.00	-	-	10.00	-	-	-	-
8	Pigment	See headline	Color	40.00	40.00	40.00	25.00	35.00	35.00	55.00	60.00
9	BYK-1640	BYK	Defoamer	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
10	Water		Solvent	-	7.40	8.80	9.20	18.60	18.50	9.70	5.40
Total				100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Instructions

Premix position 1–5, add pigment/filler and disperse well (dissolver or beads are recommended), add position 9–10 while stirring.

Characteristic data

Additive dosage (solids on pigment)

DISPERBYK-199	15.00%	20.00%	20.00%	26.10%	20.00%	20.00%	7.00%	6.00%
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Starting point formulation – Pigment concentrates for water-based systems with DISPERBYK-199

Position	Component	Supplier	Function	Pigment								
				Supplier	Bayferrox 120 M Lanxess	Bayferrox 130 M Lanxess	Bayferrox 140 M Lanxess	Bayferrox 160 M Lanxess	Bayferrox 180 M Lanxess	Permanent Red FGR Heubach	Permanent Red FGR 70 Heubach	Hostaperm Scarlet GO Heubach
				PR 101	PR 101	PR 101	PR 101	PR 101	PR 112	PR 112	PR 168	
1	Water		Solvent	23.00	20.00	20.00	18.80	18.60	39.90	39.90	34.80	
2	Preservative		Preservative	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	
3	BYK-1640	BYK	Defoamer	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	
4	DISPERBYK-199	BYK	Wetting and dispersing	8.20	8.20	8.20	8.20	8.20	17.00	17.00	17.50	
5	OPTIGEL-WX	BYK	Anti-settling	0.50	0.50	0.50	0.50	0.50	-	-	-	
6	ASP 170	BASF	Filler	-	-	-	-	-	-	-	10.00	
7	Blanc Fixe micro	Venator	Filler	-	-	-	-	-	-	-	10.00	
8	Pigment	See headline	Color	65.00	65.00	65.00	65.00	65.00	40.00	40.00	20.00	
9	BYK-1640	BYK	Defoamer	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	
10	Water		Solvent	2.60	5.60	5.60	6.80	7.00	2.40	2.40	7.00	
Total				100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	

Instructions

Premix position 1–5, add pigment/filler and disperse well (dissolver or beads are recommended), add position 9–10 while stirring.

Characteristic data

Additive dosage (solids on pigment)

DISPERBYK-199	5.00%	5.00%	5.00%	5.00%	5.00%	17.00%	17.00%	35.00%
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				Pigment		Supplier					
				Irgazin Red L 3670 HD	Hostaperm Pink E	Hostaperm Violet RL special	Ultramarin Blue Nubicoat HWR	Hostaperm Blue A4R	Sunfast Blue 249-1284	Hostaperm Blue B2G 03	Heliogen Blue L 7101 F
				BASF	Heubach	Heubach	Ferro	Heubach	Sun Chemical	Heubach	BASF
Position	Component	Supplier	Function	PR 254	PR 122	PV 23	PB 29	PB 15:1	PB 15:3	PB 15:3	PB 15:4
1	Water		Solvent	20.00	36.80	18.00	23.00	21.00	40.00	35.00	22.00
2	Preservative		Preservative	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
3	BYK-1640	BYK	Defoamer	0.40	0.40	0.40	0.30	0.40	0.40	0.40	0.40
4	DISPERBYK-199	BYK	Wetting and dispersing	20.00	22.50	22.50	13.80	26.30	15.00	15.00	26.30
5	OPTIGEL-WX	BYK	Anti-settling	0.30	-	0.30	0.40	0.40	0.30	0.30	0.20
6	ASP 170	BASF	Filler	-	-	-	-	-	-	-	-
7	Blanc Fixe micro	Venator	Filler	10.00	10.00	10.00	-	10.00	-	-	10.00
8	Pigment	See headline	Color	40.00	30.00	30.00	55.00	35.00	30.00	30.00	35.00
9	BYK-1640	BYK	Defoamer	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
10	Water		Solvent	9.00	-	18.50	7.20	6.60	14.00	19.00	5.80
Total				100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Instructions

Premix position 1–5, add pigment/filler and disperse well (dissolver or beads are recommended), add position 9–10 while stirring.

Characteristic data

Additive dosage (solids on pigment)

DISPERBYK-199	20.00%	30.00%	30.00%	10.00%	30.10%	20.00%	20.00%	30.10%
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Position	Component	Supplier	Function	PBk 7
1	Water		Solvent	20.00
2	Preservative		Preservative	0.10
3	BYK-1640	BYK	Defoamer	0.40
4	DISPERBYK-199	BYK	Wetting and dispersing	21.90
5	OPTIGEL-WX	BYK	Anti-settling	0.50
6	ASP 170	BASF	Filler	8.00
7	Blanc Fixe micro	Venator	Filler	15.00
8	Pigment	See headline	Color	20.00
9	BYK-1640	BYK	Defoamer	0.20
10	Water		Solvent	13.90
Total				100.00

Pigment Special Black 100
Supplier Orion Engineered Carbons

Instructions

Premix position 1–5, add pigment/filler and disperse well (dissolver or beads are recommended), add position 9–10 while stirring.

Characteristic data

Additive dosage (solids on pigment)

DISPERBYK-199 43.80 %

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This issue replaces all previous versions.

