

Starting Formulation

Pigment concentrates for water-borne systems based on DISPERBYK-2015

Pos.	Component	Supplier	Function	Kemira RD3	Kronos 2310	Bayferrox 3910	Hansa Brilliant Yellow 5GX	Novoperm Yellow HR 70
				PW 6	PW 6	PY 42	PY 74	PY 83
			Pigment supplier	Kemira	Kronos International	Lanxess	Clariant	Clariant
1	Water		Solvent	17.0	17.0	30.1	28.9	28.9
2	Preservative		Preservation	0.1	0.1	0.1	0.1	0.1
3	DISPERBYK-2015	BYK	Wetting & Dispersing	5.9	5.9	13.8	30.0	30.0
4	BYK-012	BYK	Defoaming	0.5	0.5	0.5	1.0	1.0
5	RHEOBYK-7420 ES	BYK	Anti-settling	0.8	0.8	0.5		
6	Pigment	see headline	Color	70.0	70.0	55.0	40.0	40.0
7	Water (after grinding)		Solvent	5.7	5.7			

Instructions

Premix position 1-5, add pigment and disperse well (beads are recommended), add position 7 under stirring

Characteristic Data

% Additive Dosage (solids on pigment)

DISPERBYK-2015	3.4	3.4	10.0	30.0	30.0
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Remark

Irgazin Orange L2990HD * former name: Irgazin DPP Orange RA
 Irgazin Red L3670 HD * former name: Irgazin Red 2030

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Pos.	Component	Supplier	Function	Paliotol Yellow L 2140 HD	Novoperm Yellow 4G	Sicopal Yellow L 1100	Novoperm Yellow F2G	Permanent Orange RL 70
				BASF	Clariant	BASF	Clariant	Clariant
Pigment supplier				PY 139	PY 155	PY 184	PY 194	PO 34
1	Water		Solvent	52.0	37.0	23.6	33.9	37.0
2	Preservative		Preservation	0.1	0.1	0.1	0.1	0.1
3	DISPERBYK-2015	BYK	Wetting & Dispersing	21.9	16.9	25.0	25.0	16.9
4	BYK-012	BYK	Defoaming	1.0	1.0	1.0	1.0	1.0
5	RHEOBYK-7420 ES	BYK	Anti-settling			0.3		
6	Pigment	see headline	Color	25.0	45.0	25.0	40.0	45.0
7	Water (after grinding)		Solvent					

Instructions

Premix position 1-5, add pigment and disperse well (beads are recommended), add position 7 under stirring

Characteristic Data

% Additive Dosage (solids on pigment)

DISPERBYK-2015	35.0	15.0	20.0	25.0	15.0
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Pos.	Component	Supplier	Function	Novoperm Orange HL 70	Paliotol Orange L 2930 HD	Irgazin Orange L 2990 HD	Bayferrox 130 M	Novoperm Red F2RK 70
				Clariant	BASF	BASF	Lanxess	Clariant
				PO 36	PO 67	PO 73	PR 101	PR 170
1	Water		Solvent	37.0	38.9	38.9	23.4	33.9
2	Preservative		Preservation	0.1	0.1	0.1	0.1	0.1
3	DISPERBYK-2015	BYK	Wetting & Dispersing	16.9	20.0	20.0	15.0	25.0
4	BYK-012	BYK	Defoaming	1.0	1.0	1.0	1.0	1.0
5	RHEOBYK-7420 ES	BYK	Anti-settling				0.5	
6	Pigment	see headline	Color	45.0	40.0	40.0	60.0	40.0
7	Water (after grinding)		Solvent					

Instructions

Premix position 1-5, add pigment and disperse well (beads are recommended), add position 7 under stirring

Characteristic Data

% Additive Dosage (solids on pigment)

DISPERBYK-2015	15.0	20.0	20.0	10.0	25.0
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Pos.	Component	Supplier	Function	Irgazin Red L 3670 HD	Hostaperm Pink E	Hostaperm Red Violett ER02	Hostaperm Violett RL	Heliogen Blue L 6875 F
				Pigment supplier	Clarinat	Clarinat	Clarinat	BASF
				PR 254	PR 122	PV 19	PV 23	PB 15:2
1	Water		Solvent	25.8	46.4	35.0	33.3	33.0
2	Preservative		Preservation	0.1	0.1	0.1	0.1	0.1
3	DISPERBYK-2015	BYK	Wetting & Dispersing	28.1	17.5	21.9	30.6	28.4
4	BYK-012	BYK	Defoaming	1.0	1.0	1.0	1.0	1.0
5	RHEOBYK-7420 ES	BYK	Anti-settling					
6	Pigment	see headline	Color	45.0	35.0	35.0	35.0	37.5
7	Water (after grinding)		Solvent			7.0		

Instructions

Premix position 1-5, add pigment and disperse well (beads are recommended), add position 7 under stirring

Characteristic Data

% Additive Dosage (solids on pigment)

DISPERBYK-2015	25.0	20.0	25.0	35.0	30.0
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Pos.	Component	Supplier	Function	Heliogen Blue L 7101 F	Heliogen Green L 8730	Special black 4 Powder	Special black 6 Powder	Colour Black Powder FW 200
				BASF	BASF	Orion Engineered Carbons	Orion Engineered Carbons	Orion Engineered Carbons
Pigment supplier				PB 15:4	PG 7	PBk 7	PBk 7	PBk 7
1	Water		Solvent	33.0	27.0	48.9	48.9	44.9
2	Preservative		Preservation	0.1	0.1	0.1	0.1	0.1
3	DISPERBYK-2015	BYK	Wetting & Dispersing	28.4	30.9	25.0	25.0	36.0
4	BYK-012	BYK	Defoaming	1.0	1.0	1.0	1.0	1.0
5	RHEOBYK-7420 ES	BYK	Anti-settling					
6	Pigment	see headline	Color	37.5	41.0	25.0	25.0	18.0
7	Water (after grinding)		Solvent					

Instructions

Premix position 1-5, add pigment and disperse well (beads are recommended), add position 7 under stirring

Characteristic Data

% Additive Dosage (solids on pigment)

DISPERBYK-2015	30.0	30.0	40.0	40.0	80.0
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