

Starting Formulation

Pigment concentrates for water-borne systems based on DISPERBYK-190

Pos.	Component	Supplier	Function	Kronos 2160	Bayferrox 3910	Hansa Brilliant Yellow 2GX70	Novoperm Yellow HR 70	Novoperm Yellow H3G
				Pigment supplier Kronos International	Lanxess	Clariant	Clariant	Clariant
				PW 6	PY 42	PY 74	PY 83	PY 154
1	Water		Solvent	19.7	22.8	28.9	28.9	37.7
2	Preservative		Preservation	0.1	0.1	0.1	0.1	0.1
3	DISPERBYK-190	BYK	Wetting & Dispersing	8.8	20.6	30.0	30.0	26.3
4	BYK-024	BYK	Defoaming	1.0	1.0	1.0	1.0	1.0
5	RHEOBYK-7420 ES	BYK	Anti-settling	0.5	0.5			
6	Pigment	see headline	Color	70.0	55.0	40.0	40.0	35.0

Instructions

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

Characteristic Data

% Additive Dosage (solids on pigment)

DISPERBYK-190	5.0	15.0	30.0	30.0	30.0
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Remark

- 1) The exchange of a pigment as well as partial exchange of water by solvents in the formulation may change the viscosity!
- 2) The required grinding viscosity depends on the grinding equipment and must be adapted.

Irgazin Red L3670 HD * former name: Irgazin Red 2030

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Pos.	Component	Supplier	Pigment supplier Function	Novoperm Orange HL 70	Bayferrox 130 M	Novoperm Red F2RK 70	Irgazin Red L 3670 HD	Hostaperm Pink E
				Clariant	Lanxess	Clarinat	BASF	Clarinat
				PO 36	PR 101	PR 170	PR 254	PR 122
1	Water		Solvent	46.4	23.4	33.5	38.9	46.4
2	Preservative		Preservation	0.1	0.1	0.1	0.1	0.1
3	DISPERBYK-190	BYK	Wetting & Dispersing	22.5	15.0	25.0	30.0	22.5
4	BYK-024	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	30.0	60.0	40.0	30.0	30.0

Instructions

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

Characteristic Data

% Additive Dosage (solids on pigment)

DISPERBYK-190	30.0	10.0	25.0	40.0	30.0
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Pos.	Component	Supplier	Function	Hostaperm Red Violet ER02	Hostaperm Violet RL	Heliogen Blue L 6875 F	Heliogen Green L 8730	Special black 4 Powder
				Clarinat	Clarinat	BASF	BASF	Orion Engineered Carbons
			Pigment supplier	PV 19	PV 23	PB 15:2	PG 7	PBk 7
1	Water		Solvent	46.4	46.4	28.9	33.9	48.9
2	Preservative		Preservation	0.1	0.1	0.1	0.1	0.1
3	DISPERBYK-190	BYK	Wetting & Dispersing	22.5	22.5	35.0	25.0	25.0
4	BYK-024	BYK	Defoaming	1.0	1.0	1.0	1.0	1.0
5	RHEOBYK-7420 ES	BYK	Anti-settling					
6	Pigment	see headline	Color	30.0	30.0	35.0	40.0	25.0

Instructions

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

Characteristic Data

% Additive Dosage (solids on pigment)

DISPERBYK-190 **30.0** **30.0** **40.0** **25.0** **40.0**

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Pos.	Component	Supplier	Pigment supplier Function	Special black 6 Powder	Colour Black Powder FW 200	Raven 5000
				Orion Engineered Carbons	Orion Engineered Carbons	Birla Carbon
				PBk 7	PBk 7	PBk 7
1	Water		Solvent	48.9	57.5	49.4
2	Preservative		Preservation	0.1	0.1	0.1
3	DISPERBYK-190	BYK	Wetting & Dispersing	25.0	26.3	31.5
4	BYK-024	BYK	Defoaming	1.0	1.0	1.0
5	RHEOBYK-7420 ES	BYK	Anti-settling			
6	Pigment	see headline	Color	25.0	15.0	18.0

Instructions

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

Characteristic Data

% Additive Dosage (solids on pigment)

DISPERBYK-190	40.0	70.0	70.0
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