

Starting Formulation

Resin-free pigment concentrates for water-borne systems

				Kronos 2160	Bayferrox 3920	Hostaperm Yellow H3G	Hansa Brillant Yellow 2GX70	Novoperm Yellow HR 70
	Pigment supplier			Kronos	Lanxess	Clariant	Clariant	Clariant
Pos.	Component	Supplier	Function	PW 6	PY 42	PY 154	PY 74	PY 83
1	Demineralized water		Carrier / Solvent	19.7	22.8	37.7	28.9	28.9
2	DISPERBYK-190	BYK	Wetting & Dispersing	8.8	20.6	26.3	30.0	30.0
3	BYK-024	BYK	Defoamer	1.0	1.0	1.0	1.0	1.0
4	Preservative			0.1	0.1	0.1	0.1	0.1
5	RHEOBYK-D 420	BYK	Anti-settling	0.5	0.5			
6	Pigment & Color Index (see headline)	see headline	Pigment	70.0	55.0	35.0	40.0	40.0

Instructions

Premix position 1-5, add pigment and disperse (grind) well

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

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Pos.	Component	Supplier	Function	Novoperm Orange HL 70-NF	Bayferrox 130FS	Novoperm Red F3RK70	Irgazin Red L 3660 HD	Hostaperm Pink E
				Clariant	Lanxess	Clariant	BASF	Clariant
				PO 36	PR 101	PR 170	PR 254	PR 122
		Pigment supplier						
1	Demineralized water		Carrier / Solvent	46.4	23.4	33.5	38.9	46.4
2	DISPERBYK-190	BYK	Wetting & Dispersing	22.5	15.0	25.0	30.0	22.5
3	BYK-024	BYK	Defoamer	1.0	1.0	1.0	1.0	1.0
4	Preservative			0.1	0.1	0.1	0.1	0.1
5	RHEOBYK-D 420	BYK	Anti-settling		0.5	0.4		
6	Pigment & Color Index (see headline)	see headline	Pigment	30.0	60.0	40.0	30.0	30.0

Instructions

Premix position 1-5, add pigment and disperse (grind) well

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 Red E3B	Hostaperm Violet RL special	Heliogen Blue L6975F	Heliogen Green L8730
				Clariant	Clariant	Clariant	BASF	BASF
				PV 19	PV 19	PV 23	PB 15:2	PG 7
1	Demineralized water		Carrier / Solvent	46.4	46.4	46.4	28.9	33.9
2	DISPERBYK-190	BYK	Wetting & Dispersing	22.5	22.5	22.5	35.0	25.0
3	BYK-024	BYK	Defoamer	1.0	1.0	1.0	1.0	1.0
4	Preservative			0.1	0.1	0.1	0.1	0.1
5	RHEOBYK-D 420	BYK	Anti-settling					
6	Pigment & Color Index (see headline)	see headline	Pigment	30.0	30.0	30.0	35.0	40.0

Instructions

Premix position 1-5, add pigment and disperse (grind) well

Characteristic Data

% Additive dosage (solids on pigment)

DISPERBYK-190	30.0	30.0	30.0	40.0	25.0
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Pos.	Component	Supplier	Pigment supplier Function	Color Black FW 200	Color Black FW 285	Monarch 1100	Elftex 415	Raven 5000
				Orion Engineered Carbons	Orion Engineered Carbons	Cabot Corp.	Cabot Corp.	Aditya Birla Chemicals
				PBk 7	PBk 7	PBk 7	PBk 7	PBk 7
1	Demineralized water		Carrier / Solvent	57.7	57.7	38.4	43.9	49.4
2	DISPERBYK-190	BYK	Wetting & Dispersing	26.3	26.3	38.5	35.0	31.5
3	BYK-024	BYK	Defoamer	1.0	1.0	1.0	1.0	1.0
4	Preservative			0.1	0.1	0.1	0.1	0.1
5	RHEOBYK-D 420	BYK	Anti-settling					
6	Pigment & Color Index (see headline)	see headline	Pigment	15.0	15.0	22.0	20.0	18.0

Instructions

Premix position 1-5, add pigment and disperse (grind) well

Characteristic Data

% Additive dosage (solids on pigment)

DISPERBYK-190 **70.0** **70.0** **70.0** **70.0** **70.0**

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