

Starting Formulation

Resin-free pigment concentrates for water-borne systems

Pos.	Component	Supplier	Function	Pigment supplier	Kronos 2160	Bayferrox 3920	Hostaperm Yellow H7G	Novoperm Yellow 5GD 71	Novoperm Yellow HR 70
					Kronos	Lanxess	Clariant	Clariant	Clariant
					PW 6	PY 42	PY 219	PY155	PY 83
1	Demineralized water		Carrier / Solvent		17.0	31.3	37.0	37.0	37.0
2	DISPERBYK-2010	BYK	Wetting & Dispersing		5.6	11.0	16.9	16.9	16.9
3	DISPERBYK-180	BYK	Wetting & Dispersing		0.8	1.1			
4	BYK-012	BYK	Defoamer		1.0	1.0	1.0	1.0	1.0
5	Preservative				0.1	0.1	0.1	0.1	0.1
6	RHEOBYK-D 420	BYK	Anti-settling		0.5	0.5			
7	Pigment & Color Index (see headline)	see headline	Pigment		75.0	55.0	45.0	45.0	45.0

Instructions

Premix position 1-6, add pigment and disperse (grind) well

Characteristic Data

% Additive dosage (solids on pigment)

DISPERBYK-2010	3.0	8.0	15.0	15.0	15.0
DISPERBYK-180	1.0	2.0			

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	Pigment supplier Function	Novoperm Orange HL 70	Hostaperm Red D3G 70	Novoperm Red F3RK 70	Hostaperm Red E3B	Hostaperm Pink E
				Clariant PO 36	Clariant PR 254	Clariant PR 254	Clariant PV 19	Clariant PR 122
1	Demineralized water		Carrier / Solvent	37.0	25.4	32.9	42.0	46.4
2	DISPERBYK-2010	BYK	Wetting & Dispersing	16.9	28.1	18.0	21.9	17.5
3	DISPERBYK-180	BYK	Wetting & Dispersing					
4	BYK-012	BYK	Defoamer	1.0	1.0	1.0	1.0	1.0
5	Preservative			0.1	0.1	0.1	0.1	0.1
6	RHEOBYK-D 420	BYK	Anti-settling		0.4			
7	Pigment & Color Index (see headline)	see headline	Pigment	45.0	45.0	48.0	35.0	35.0

Instructions

Premix position 1-6, add pigment and disperse (grind) well

Characteristic Data

% Additive dosage (solids on pigment)

DISPERBYK-2010	15.0	25.0	15.0	25.0	20.0
DISPERBYK-180					

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Pos.	Component	Supplier	Pigment supplier Function	Hostaperm Violet RL special	Hostaperm Blue A4R	Hostaperm Blue B2G-L	Hostaperm Green GNX	Special Black 4
				Clariant PV 23	Clariant PB 15:1	Clariant PB 15:3	Clariant PG 7	Orion Engineered Carbons PBk 7
1	Demineralized water		Carrier / Solvent	23.9	33.9	38.9	20.2	52.0
2	DISPERBYK-2010	BYK	Wetting & Dispersing	35.0	25.0	20.0	33.8	21.9
3	DISPERBYK-180	BYK	Wetting & Dispersing					
4	BYK-012	BYK	Defoamer	1.0	1.0	1.0	1.0	1.0
5	Preservative			0.1	0.1	0.1	0.1	0.1
6	RHEOBYK-D 420	BYK	Anti-settling					
7	Pigment & Color Index (see headline)	see headline	Pigment	40.0	40.0	40.0	45.0	25.0

Instructions

Premix position 1-6, add pigment and disperse (grind) well

Characteristic Data

% Additive dosage (solids on pigment)

DISPERBYK-2010	35.0	25.0	20.0	30.0	35.0
DISPERBYK-180					

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