

Starting Formulation

Resin-free pigment concentrates for water-borne systems

Pos.	Component	Supplier	Function	Ti-Pure R 902	Tioxide TR 92	Bayferrox 3920	Hostaperm Yellow H3G	Novoperm Yellow HR 70
				Pigment supplier	Chemours	Huntsman	Lanxess	Clariant
				PW 6	PW 6	PY 42	PY 154	PY 83
1	Demineralized water		Carrier / Solvent	22.2	22.2	25.2	37.7	31.4
2	DISPERBYK-2012	BYK	Wetting & Dispersing	5.3	5.3	16.5	26.3	28.5
3	DISPERBYK-180	BYK	Wetting & Dispersing	1.4	1.4	1.7		
4	BYK-SYNERGIST 2102	BYK	Wetting & Dispersing					
5	BYK-012	BYK	Defoamer	0.5	0.5	1.0	1.0	2.0
6	Preservative			0.1	0.1	0.1	0.1	0.1
7	RHEOBYK-D 420	BYK	Anti-settling	0.6	0.6	0.6		
8	Pigment & Color Index (see headline)	see headline	Pigment	70.0	70.0	55.0	35.0	38.0

Instructions

Premix position 1-7, add pigment and disperse (grind) well

Characteristic Data

% Additive dosage (solids on pigment)

DISPERBYK-2012	3.0	3.0	12.0	30.0	30.0
DISPERBYK-180	2.0	2.0	3.0		
BYK-SYNERGIST 2102					

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Remark

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- 2) The required grinding viscosity depends on the grinding equipment and must be adapted.

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Starting Formulation

Resin-free pigment concentrates for water-borne systems

Pos.	Component	Supplier	Function	Novoperm Orange HL 70-NF	Bayferrox 130M	Novoperm Red F3RK 70	Hostaperm Red D3G 70	Hostaperm Pink E
				Clariant	Lanxess	Clariant	Clariant	Clariant
		Pigment supplier		PO 36	PR 101	PR 254	PR 254	PV 19
1	Demineralized water		Carrier / Solvent	37.7	14.3	33.9	32.9	42.7
2	DISPERBYK-2012	BYK	Wetting & Dispersing	26.3	13.6	25.0	33.0	26.3
3	DISPERBYK-180	BYK	Wetting & Dispersing		1.4			
4	BYK-SYNERGIST 2102	BYK	Wetting & Dispersing					
5	BYK-012	BYK	Defoamer	1.0	2.0	1.0	1.0	1.0
6	Preservative			0.1	0.1	0.1	0.1	0.1
7	RHEOBYK-D 420	BYK	Anti-settling		0.6			
8	Pigment & Color Index (see headline)	see headline	Pigment	35.0	68.0	40.0	33.0	30.0

Instructions

Premix position 1-7, add pigment and disperse (grind) well

Characteristic Data

% Additive dosage (solids on pigment)

DISPERBYK-2012	30.0	8.0	25.0	40.0	35.0
DISPERBYK-180		2.0			
BYK-SYNERGIST 2102					

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Remark

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				Clariant	Clariant	BASF	Heubach	Cabot Corporation
				PR 122	PV 23	PB 15:1	PG 7	PBk 7
1	Demineralized water		Carrier / Solvent	46.4	38.9	36.7	33.9	43.9
2	DISPERBYK-2012	BYK	Wetting & Dispersing	22.5	30.0	30.0	25.0	35.0
3	DISPERBYK-180	BYK	Wetting & Dispersing					
4	BYK-SYNERGIST 2102	BYK	Wetting & Dispersing			1.2		
5	BYK-012	BYK	Defoamer	1.0	1.0	2.0	1.0	1.0
6	Preservative			0.1	0.1	0.1	0.1	0.1
7	RHEOBYK-D 420	BYK	Anti-settling					
8	Pigment & Color Index (see headline)	see headline	Pigment	30.0	30.0	30.0	40.0	20.0

Instructions

Premix position 1-7, add pigment and disperse (grind) well

Characteristic Data

% Additive dosage (solids on pigment)

DISPERBYK-2012	30.0	40.0	40.0	25.0	70.0
DISPERBYK-180					
BYK-SYNERGIST 2102			4.0		

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Pos.	Component	Supplier	Function	Special Black 4	Color black FW 285	Carbon Black FW 171	Raven 5000 Ultra III	Emperor 2000
				Orion Engineered Carbons	Orion Engineered Carbons	Orion Engineered Carbons	Aditya Birla Chemicals	Cabot Corporation
				PBk 7	PBk 7	PBI 7	PBI 7	PBI 7
1	Demineralized water		Carrier / Solvent	43.9	46.4	49.4	49.4	49.4
2	DISPERBYK-2012	BYK	Wetting & Dispersing	35.0	37.5	31.5	31.5	31.5
3	DISPERBYK-180	BYK	Wetting & Dispersing					
4	BYK-SYNERGIST 2102	BYK	Wetting & Dispersing					
5	BYK-012	BYK	Defoamer	1.0	1.0	1.0	1.0	1.0
6	Preservative			0.1	0.1	0.1	0.1	0.1
7	RHEOBYK-D 420	BYK	Anti-settling					
8	Pigment & Color Index (see headline)	see headline	Pigment	20.0	15.0	18.0	18.0	18.0

Instructions

Premix position 1-7, add pigment and disperse (grind) well

70 70 70

Characteristic Data

% Additive dosage (solids on pigment)

DISPERBYK-2012 70.0 100.0 70.0 70.0 70.0
DISPERBYK-180
BYK-SYNERGIST 2102

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