

Starting point formulation – Resin-free pigment concentrates for water-based systems with DISPERBYK-2010

Position	Component	Supplier	Function	Pigment	Pigment	Pigment	Pigment	Pigment	Pigment
				Supplier	Supplier	Supplier	Supplier	Supplier	Supplier
				Kronos 2160 Kronos International	Bayferrox 3920 Lanxess	Hostaperm Yellow H7G Heubach	Novoperm Yellow 5GD 71 Heubach	Novoperm Yellow HR 70 Heubach	Novoperm Orange HL 70 Heubach
				PW 6	PY 42	PY 219	PY155	PY 83	PO 36
1	Demineralized water		Carrier/solvent	17.00	31.30	37.00	37.00	37.00	37.00
2	DISPERBYK-2010	BYK	Wetting and dispersing	5.60	11.00	16.90	16.90	16.90	16.90
3	DISPERBYK-180	BYK	Wetting and dispersing	0.80	1.10	-	-	-	-
4	BYK-012	BYK	Defoamer	1.00	1.00	1.00	1.00	1.00	1.00
5	Preservative			0.10	0.10	0.10	0.10	0.10	0.10
6	RHEOBYK-D 420	BYK	Anti-settling	0.50	0.50	-	-	-	-
7	Pigment (see headline)	See headline	Pigment	75.00	55.00	45.00	45.00	45.00	45.00
Total				100.00	100.00	100.00	100.00	100.00	100.00

Instructions

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

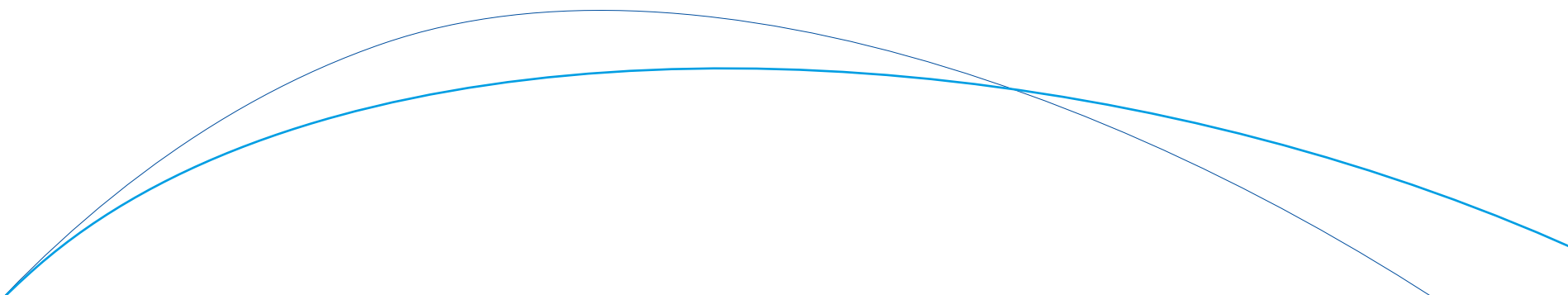
Characteristic data

Additive dosage (solids on pigment)

	PW 6	PY 42	PY 219	PY155	PY 83	PO 36
DISPERBYK-2010	3.00 %	8.00 %	15.00 %	15.00 %	15.00 %	15.00 %
DISPERBYK-180	1.00 %	2.00 %	-	-	-	-

Remark

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



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Position	Component	Supplier	Function	Pigment	Hostaperm Red D3G 70 Heubach	Novoperm Red F3RK 70 Heubach	Hostaperm Red E3B Heubach	Hostaperm Pink E Heubach	Hostaperm Violet RL special Heubach	Hostaperm Blue A4R Heubach
				Supplier	PR 254	PR 254	PV 19	PR 122	PV 23	PB 15:1
1	Demineralized water		Carrier/solvent		25.40	32.90	42.00	46.40	23.90	33.90
2	DISPERBYK-2010	BYK	Wetting and dispersing		28.10	18.00	21.90	17.50	35.00	25.00
3	DISPERBYK-180	BYK	Wetting and dispersing		-	-	-	-	-	-
4	BYK-012	BYK	Defoamer		1.00	1.00	1.00	1.00	1.00	1.00
5	Preservative				0.10	0.10	0.10	0.10	0.10	0.10
6	RHEOBYK-D 420	BYK	Anti-settling		0.40	-	-	-	-	-
7	Pigment (see headline)	See headline	Pigment		45.00	48.00	35.00	35.00	40.00	40.00
Total					100.00	100.00	100.00	100.00	100.00	100.00

Instructions

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

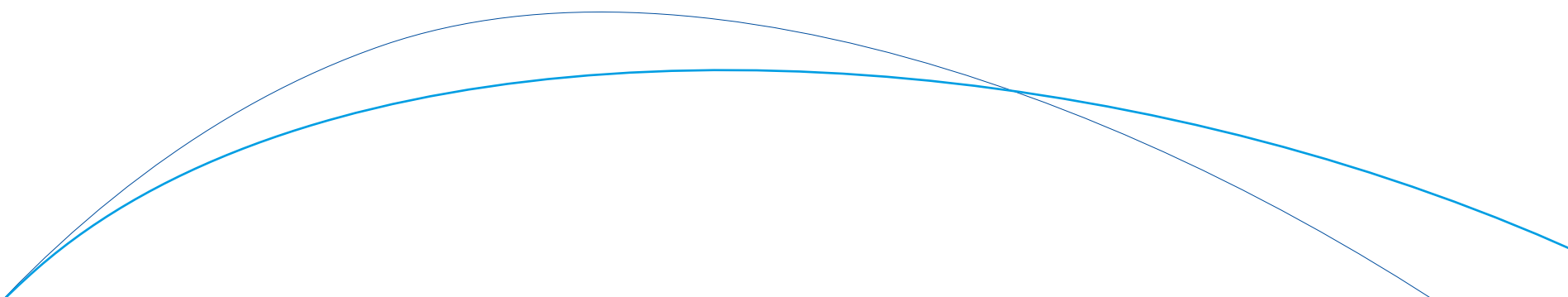
Characteristic data

Additive dosage (solids on pigment)

DISPERBYK-2010	25.00 %	15.00 %	25.00 %	20.00 %	35.00 %	25.00 %
DISPERBYK-180	-	-	-	-	-	-

Remark

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



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Position	Component	Supplier	Function	Pigment	Pigment	Pigment
				Hostaperm Blue B2G-L Heubach	Hostaperm Green GNX Heubach	Special Black 4 Orion Engineered Carbons
				PB 15:3	PG 7	PBk 7
1	Demineralized water		Carrier/solvent	38.90	20.10	52.00
2	DISPERBYK-2010	BYK	Wetting and dispersing	20.00	33.80	21.90
3	DISPERBYK-180	BYK	Wetting and dispersing	-	-	-
4	BYK-012	BYK	Defoamer	1.00	1.00	1.00
5	Preservative			0.10	0.10	0.10
6	RHEOBYK-D 420	BYK	Anti-settling	-	-	-
7	Pigment (see headline)	See headline	Pigment	40.00	45.00	25.00
Total				100.00	100.00	100.00

Instructions

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

Characteristic data

Additive dosage (solids on pigment)

	PB 15:3	PG 7	PBk 7
DISPERBYK-2010	20.00 %	30.00 %	35.00 %
DISPERBYK-180	-	-	-

Remark

The exchange of a pigment as well as a partial exchange of the water by solvents in the formulation may change the viscosity!
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This issue replaces all previous versions.

