

Starting point formulation – Resin-free pigment concentrates for water-based systems with DISPERBYK-190

Position	Component	Supplier	Function	Pigment	Pigment	Pigment	Pigment	Pigment	Pigment
				Supplier	Kronos 2160 Kronos International	Bayferrox 3920 Lanxess	Hostaperm Yellow H3G Heubach	Hansa Brilliant Yellow 2GX 70 Heubach	Novoperm Yellow HR 70 Heubach
				PW 6	PY 42	PY 154	PY 74	PY 83	PO 36
1	Demineralized water		Carrier/solvent	19.60	22.80	37.60	28.90	28.90	46.40
2	DISPERBYK-190	BYK	Wetting and dispersing	8.80	20.60	26.30	30.00	30.00	22.50
3	BYK-024	BYK	Defoamer	1.00	1.00	1.00	1.00	1.00	1.00
4	Preservative			0.10	0.10	0.10	0.10	0.10	0.10
5	RHEOBYK-D 420	BYK	Anti-settling	0.50	0.50	-	-	-	-
6	Pigment (see headline)	See headline	Pigment	70.00	55.00	35.00	40.00	40.00	30.00
Total				100.00	100.00	100.00	100.00	100.00	100.00

Instructions

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

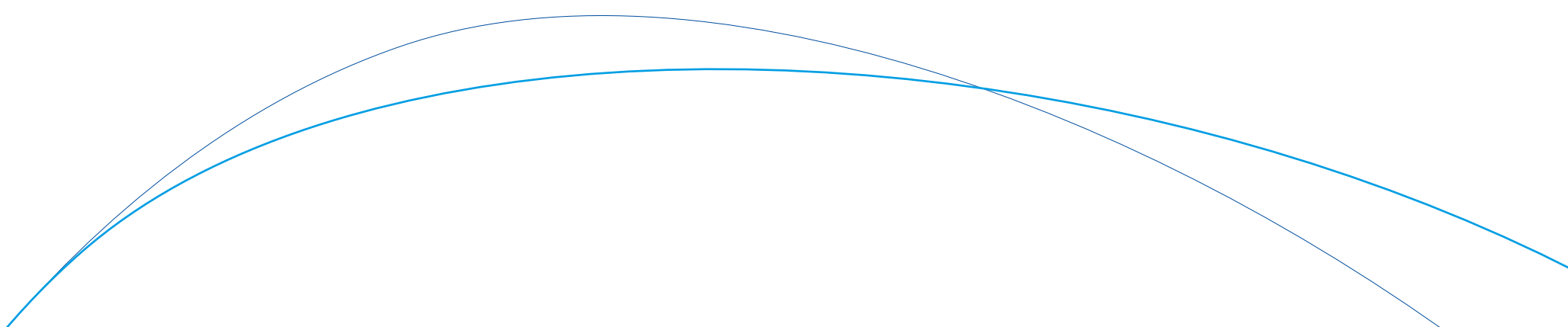
Characteristic data

Additive dosage (solids on pigment)

DISPERBYK-190	5.00 %	15.00 %	30.00 %	30.00 %	30.00 %	30.00 %
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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					
				Bayferrox 130 FS Lanxess	Novoperm Red F3RK70 Heubach	Irgazin Red L 3660 HD Sun Chemicals (DIC)	Hostaperm Pink E Heubach	Hostaperm Red Violet ER 02 Heubach	Hostaperm Red E3B Heubach
				PR 101	PR 170	PR 254	PR 122	PV 19	PV 19
1	Demineralized water		Carrier/solvent	23.40	33.50	38.90	46.40	46.40	46.40
2	DISPERBYK-190	BYK	Wetting and dispersing	15.00	25.00	30.00	22.50	22.50	22.50
3	BYK-024	BYK	Defoamer	1.00	1.00	1.00	1.00	1.00	1.00
4	Preservative			0.10	0.10	0.10	0.10	0.10	0.10
5	RHEOBYK-D 420	BYK	Anti-settling	0.50	0.40	-	-	-	-
6	Pigment (see headline)	See headline	Pigment	60.00	40.00	30.00	30.00	30.00	30.00
Total				100.00	100.00	100.00	100.00	100.00	100.00

Instructions

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

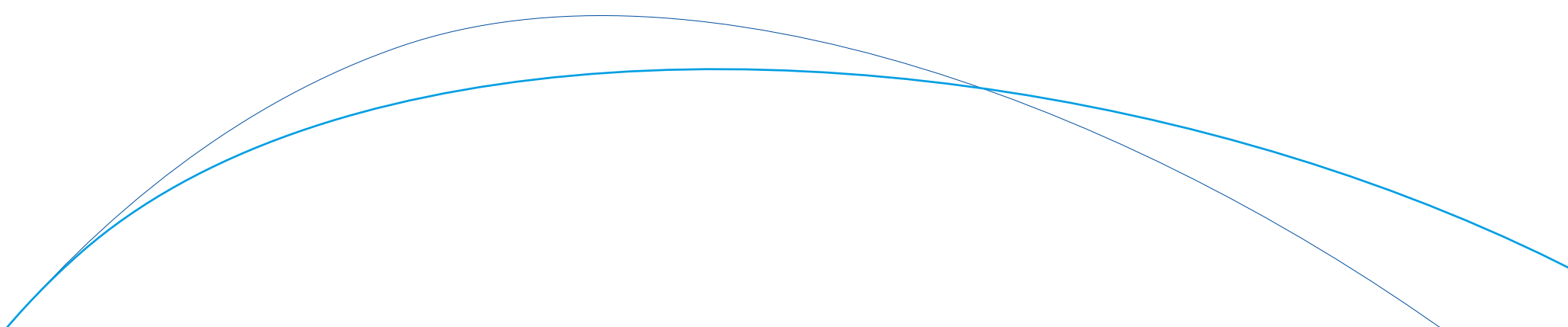
Characteristic data

Additive dosage (solids on pigment)

DISPERBYK-190	10.00 %	25.00 %	40.00 %	30.00 %	30.00 %	30.00 %
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Position	Component	Supplier	Function	Pigment	Pigment	Pigment	Pigment	Pigment	Pigment
				Hostaperm Violet RL special Heubach	Heliogen Blue L 6975 F Sun Chemicals (DIC)	Heliogen Green L 8730 Sun Chemicals (DIC)	Color Black FW 200 Orion Engineered Carbons	Color Black FW 285 Orion Engineered Carbons	Monarch 1100 Cabot Corp.
				PV 23	PB 15:2	PG 7	PBk 7	PBk 7	PBk 7
1	Demineralized water		Carrier/solvent	46.40	28.90	33.90	57.60	57.60	38.40
2	DISPERBYK-190	BYK	Wetting and dispersing	22.50	35.00	25.00	26.30	26.30	38.50
3	BYK-024	BYK	Defoamer	1.00	1.00	1.00	1.00	1.00	1.00
4	Preservative			0.10	0.10	0.10	0.10	0.10	0.10
5	RHEOBYK-D 420	BYK	Anti-settling	-	-	-	-	-	-
6	Pigment (see headline)	See headline	Pigment	30.00	35.00	40.00	15.00	15.00	22.00
Total				100.00	100.00	100.00	100.00	100.00	100.00

Instructions

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

Characteristic data

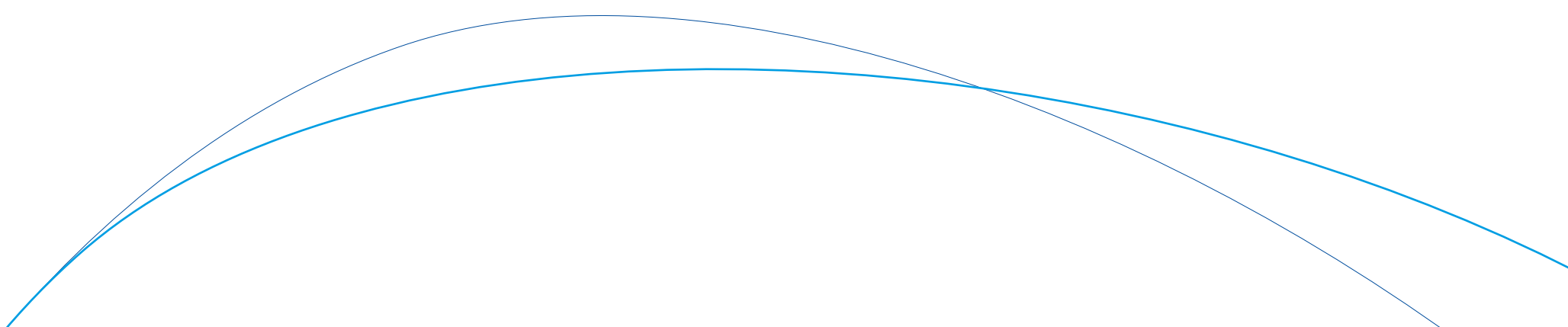
Additive dosage (solids on pigment)

	PV 23	PB 15:2	PG 7	PBk 7	PBk 7	PBk 7
DISPERBYK-190	30.00 %	40.00 %	25.00 %	70.00 %	70.00 %	70.00 %

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	
				Elftex 415 Cabot Corp.	Raven 5000 Birla Carbon
				PBk 7	PBk 7
1	Demineralized water		Carrier/solvent	43.90	49.40
2	DISPERBYK-190	BYK	Wetting and dispersing	35.00	31.50
3	BYK-024	BYK	Defoamer	1.00	1.00
4	Preservative			0.10	0.10
5	RHEOBYK-D 420	BYK	Anti-settling	-	-
6	Pigment (see headline)	See headline	Pigment	20.00	18.00
Total				100.00	100.00

Instructions

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

Characteristic data

Additive dosage (solids on pigment)

DISPERBYK-190	70.00 %	70.00 %
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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.

