

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

				Pigment	Kronos 2160	Bayferrox 3920	Hostaperm Yellow H3G	Hansa Brilliant Yellow 2GX 70	Novoperm Yellow HR 70	Novoperm Red F3RK70
				Supplier	Kronos International	Lanxess	Sudarshan	Sudarshan	Sudarshan	Sudarshan
Position	Component	Supplier	Function	PW 6	PY 42	PY 154	PY 74	PY 83	PR 170	
1	Demineralized water		Carrier/solvent	19.60	22.80	37.60	28.90	28.90	33.50	
2	DISPERBYK-190	BYK	Wetting and dispersing	8.80	20.60	26.30	30.00	30.00	25.00	
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	-	-	-	0.40	
6	Pigment (see headline)	See headline	Pigment	70.00	55.00	35.00	40.00	40.00	40.00	
<b>Total</b>				<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	

### Instructions

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

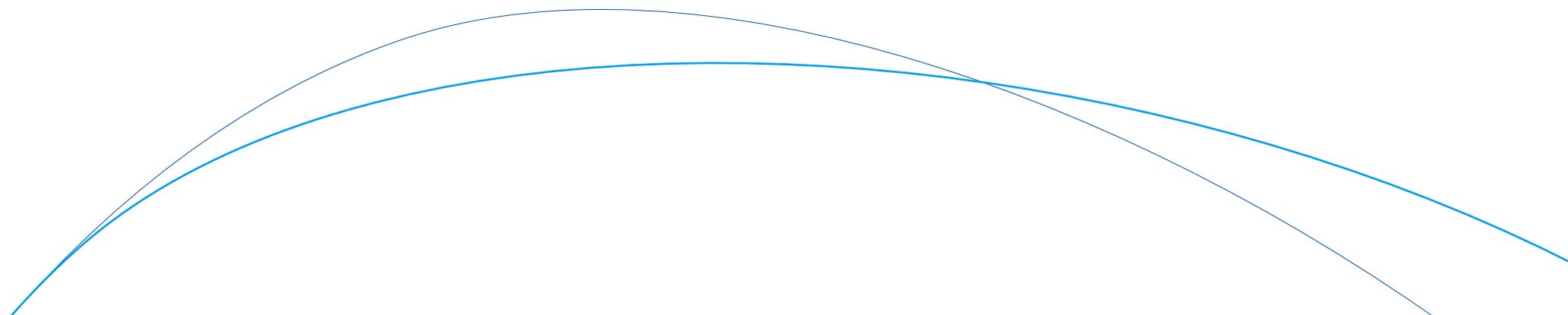
### Characteristic data

Additive dosage (solids on pigment)

DISPERBYK-190	5.00 %	15.00 %	30.00 %	30.00 %	30.00 %	10.00 %
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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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				Pigment	Irgazin Red L 3660 HD	Hostaperm Pink E	Hostaperm Red Violet ER 02	Hostaperm Red E3B	Hostaperm Violet RL special	Heliogen Blue L 6975 F
				Supplier	Sun Chemicals (DIC)	Sudarshan	Sudarshan	Sudarshan	Sudarshan	Sun Chemicals (DIC)
Position	Component	Supplier	Function	PR 254	PR 122	PV 19	PV 19	PV 23	PB 15:2	
1	Demineralized water		Carrier/solvent	38.90	46.40	46.40	46.40	46.40	28.90	
2	DISPERBYK-190	BYK	Wetting and dispersing	30.00	22.50	22.50	22.50	22.50	35.00	
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	30.00	30.00	30.00	30.00	35.00	
<b>Total</b>				<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	

### Instructions

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

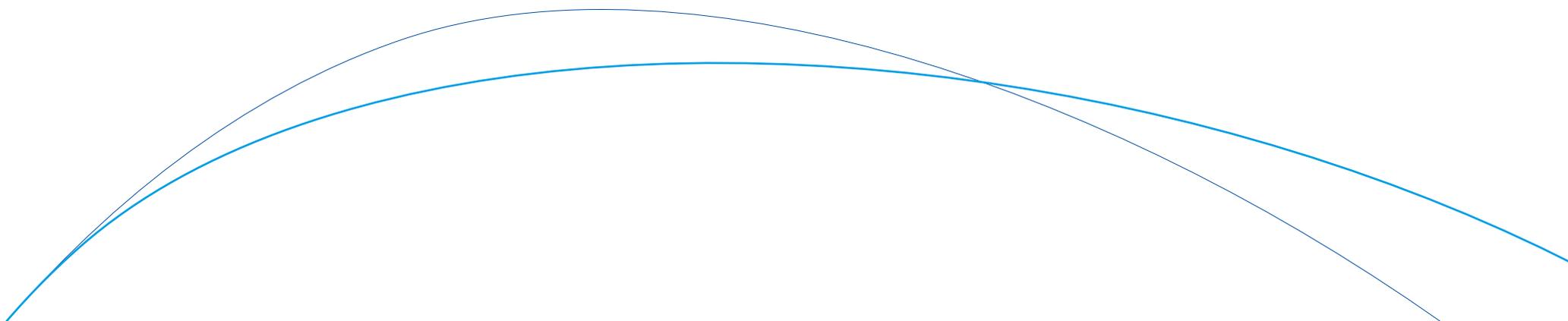
### Characteristic data

Additive dosage (solids on pigment)

DISPERBYK-190	25.00 %	40.00 %	30.00 %	30.00 %	30.00 %	40.00 %
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### 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	Color	Color	Monarch	Elftex	Raven
				Heliogen Green L 8730	Black FW 200	Black FW 285	1100	415	5000
				Supplier	Orion Engineered Carbons	Orion Engineered Carbons	Cabot Corp.	Cabot Corp.	Birla Carbon
				PG 7	PBk 7	PBk 7	PBk 7	PBk 7	PBk 7
1	Demineralized water		Carrier/solvent	33.90	57.60	57.60	38.40	43.90	49.40
2	DISPERBYK-190	BYK	Wetting and dispersing	25.00	26.30	26.30	38.50	35.00	31.50
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	40.00	15.00	15.00	22.00	20.00	18.00
<b>Total</b>				<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>

### Instructions

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

### Characteristic data

Additive dosage (solids on pigment)

DISPERBYK-190	25.00 %	70.00 %	70.00 %	70.00 %	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!  
The required grinding viscosity depends on the grinding equipment and must be adapted.



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