

## Starting point formulation – Resin-free pigment concentrates for water-based systems with DISPERBYK-2012

				Pigment		Supplier			
				Ti-Pure R 902	Tioxide TR 92	Bayferrox 3920	Hostaperm Yellow H3G	Novoperm Yellow HR 70	Bayferrox 130 M
				Chemours	Venator	Lanxess	Sudarshan	Sudarshan	Lanxess
Position	Component	Supplier	Function	PW 6	PW 6	PY 42	PY 154	PY 83	PR 101
1	Demineralized water		Carrier/solvent	22.10	22.10	25.20	37.70	31.40	14.30
2	DISPERBYK-2012	BYK	Wetting and dispersing	5.30	5.30	16.50	26.30	28.50	13.60
3	DISPERBYK-180	BYK	Wetting and dispersing	1.40	1.40	1.70	-	-	1.40
4	BYK-012	BYK	Defoamer	0.50	0.50	1.00	1.00	2.00	2.00
5	Preservative			0.10	0.10	0.10	0.10	0.10	0.10
6	RHEOBYK-D 420	BYK	Anti-settling	0.60	0.60	0.60	-	-	0.60
7	Pigment (see headline)	See headline	Pigment	70.00	70.00	55.00	35.00	38.00	68.00
<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 1–6, add pigment and disperse (grind) well.

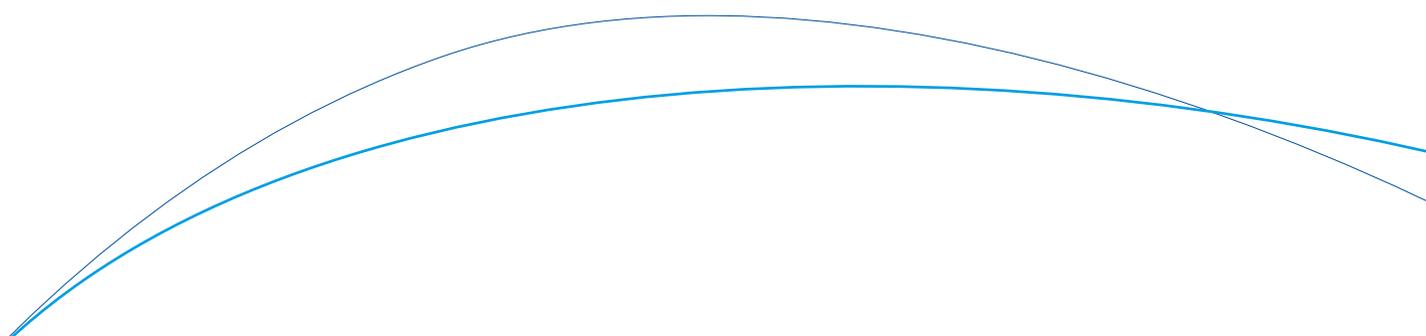
### Characteristic data

Additive dosage (solids on pigment)

DISPERBYK-2012	3.00 %	3.00 %	12.00 %	30.00 %	30.00 %	8.00 %
DISPERBYK-180	2.00 %	2.00 %	3.00 %	-	-	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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				Pigment	Novoperm Red F3RK 70	Hostaperm Pink E	Hostaperm Red Violet ER 02	Hosatperm Violet RL special	Heliogen Blue L 7085	Heuco Green 600734
				Supplier	Sudarshan	Sudarshan	Sudarshan	Sudarshan	Sun Chemicals (DIC)	Sudarshan
Position	Component	Supplier	Function	PR 170	PR 122	PV 19	PV 23	PB 15:1	PG 7	
1	Demineralized water		Carrier/solvent	33.90	42.60	46.40	38.90	36.70	33.90	
2	DISPERBYK-2012	BYK	Wetting and dispersing	25.00	26.30	22.50	30.00	30.00	25.00	
3	DISPERBYK-180	BYK	Wetting and dispersing	-	-	-	-	-	-	
4	BYK-012	BYK	Defoamer	1.00	1.00	1.00	1.00	2.00	1.00	
5	Preservative			0.10	0.10	0.10	0.10	0.10	0.10	
6	RHEOBYK-D 420	BYK	Anti-settling	-	-	-	-	-	-	
7	Pigment (see headline)	See headline	Pigment	40.00	30.00	30.00	30.00	30.00	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 1–6, add pigment and disperse (grind) well.

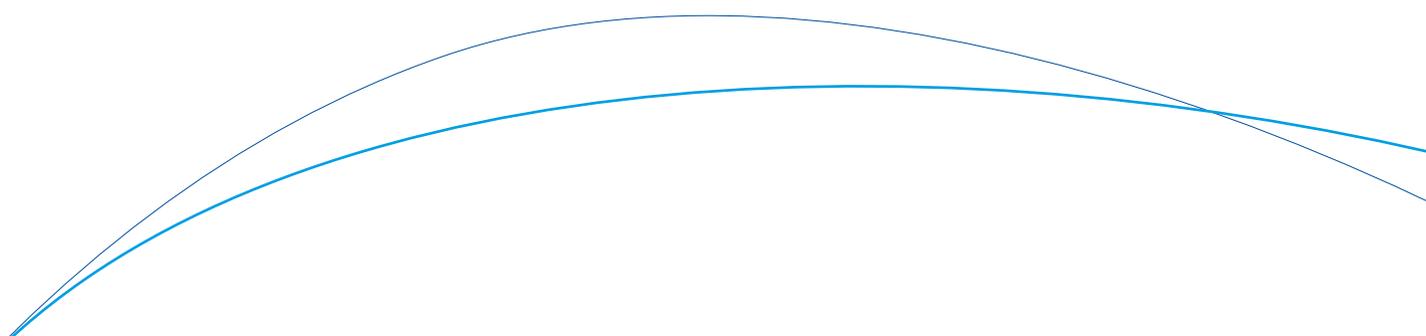
### Characteristic data

Additive dosage (solids on pigment)

	PR 170	PR 122	PV 19	PV 23	PB 15:1	PG 7
DISPERBYK-2012	25.00 %	35.00 %	30.00 %	40.00 %	40.00 %	25.00 %
DISPERBYK-180	-	-	-	-	4.00 %	-

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				Pigment	Elftex 415	Special Black 4	Color Black FW 285	Color Black FW 171	Raven 5000 Ultra III	Emperor 2000
				Supplier	Cabot Corporation	Orion Engineered Carbons	Orion Engineered Carbons	Orion Engineered Carbons	Birla Carbon	Cabot Corporation
Position	Component	Supplier	Function	PBk 7	PBk 7	PBk 7	PBk 7	PBI 7	PBI 7	PBI 7
1	Demineralized water		Carrier/solvent	43.90	43.90	46.40	49.40	49.40	49.40	49.40
2	DISPERBYK-2012	BYK	Wetting and dispersing	35.00	35.00	37.50	31.50	31.50	31.50	31.50
3	DISPERBYK-180	BYK	Wetting and dispersing	-	-	-	-	-	-	-
4	BYK-012	BYK	Defoamer	1.00	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	0.10
6	RHEOBYK-D 420	BYK	Anti-settling	-	-	-	-	-	-	-
7	Pigment (see headline)	See headline	Pigment	20.00	20.00	15.00	18.00	18.00	18.00	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>	<b>100.00</b>

### Instructions

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

### Characteristic data

Additive dosage (solids on pigment)

DISPERBYK-2012	70.00 %	70.00 %	100.00 %	70.00 %	70.00 %	70.00 %
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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Your local contact

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