

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

Position	Component	Supplier	Function	Pigment		Bayferrox 3920	Hostaperm Yellow H3G	Novoperm Yellow HR 70	Novoperm Orange HL 70-NF
				Supplier	Chemours	Venator	Lanxess	Heubach	Heubach
				PW 6	PW 6	PY 42	PY 154	PY 83	PO 36
1	Demineralized water		Carrier/solvent	22.10	22.10	25.20	37.70	31.40	37.60
2	DISPERBYK-2012	BYK	Wetting and dispersing	5.30	5.30	16.50	26.30	28.50	26.30
3	DISPERBYK-180	BYK	Wetting and dispersing	1.40	1.40	1.70	-	-	-
4	BYK-012	BYK	Defoamer	0.50	0.50	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	0.60	0.60	0.60	-	-	-
7	Pigment (see headline)	See headline	Pigment	70.00	70.00	55.00	35.00	38.00	35.00
Total				100.00	100.00	100.00	100.00	100.00	100.00

Instructions

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

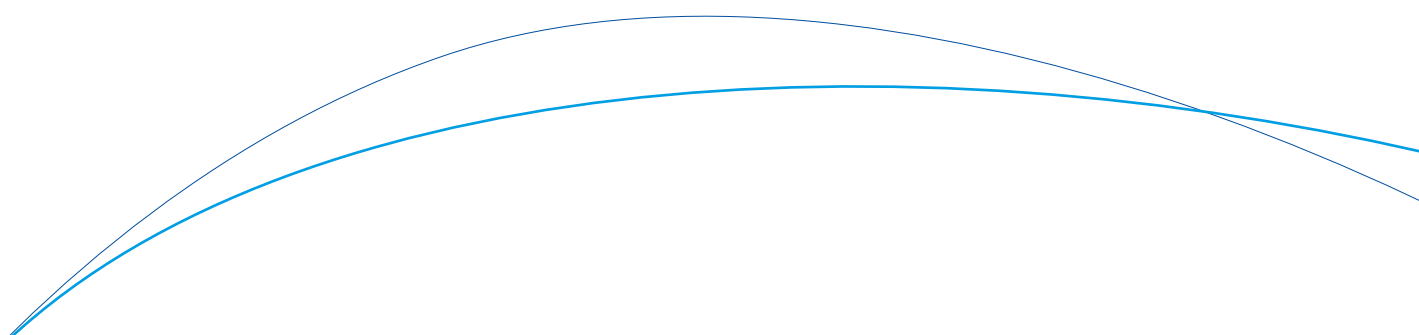
Characteristic data

Additive dosage (solids on pigment)

DISPERBYK-2012	3.00 %	3.00 %	12.00 %	30.00 %	30.00 %	30.00 %
DISPERBYK-180	2.00 %	2.00 %	3.00 %	-	-	-

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.



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

Position	Component	Supplier	Function	Pigment					
				PR 101	PR 254	PR 254	PV 19	PR 122	PV 23
				Bayferrox 130 M Lanxess	Novoperm Red F3RK 70 Heubach	Hostaperm Red D3G 70 Heubach	Hostaperm Pink E Heubach	Hostaperm Red Violet ER 02 Heubach	Hosatperm Violet RL special Heubach
1	Demineralized water		Carrier/solvent	14.30	33.90	32.90	42.60	46.40	38.90
2	DISPERBYK-2012	BYK	Wetting and dispersing	13.60	25.00	33.00	26.30	22.50	30.00
3	DISPERBYK-180	BYK	Wetting and dispersing	1.40	-	-	-	-	-
4	BYK-012	BYK	Defoamer	2.00	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	0.60	-	-	-	-	-
7	Pigment (see headline)	See headline	Pigment	68.00	40.00	33.00	30.00	30.00	30.00
Total				100.00	100.00	100.00	100.00	100.00	100.00

Instructions

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

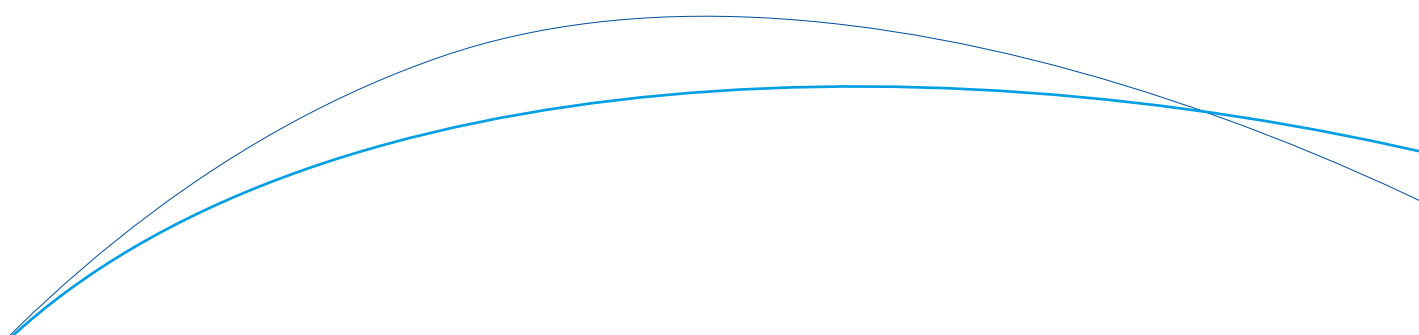
Characteristic data

Additive dosage (solids on pigment)

DISPERBYK-2012	8.00 %	25.00 %	40.00 %	35.00 %	30.00 %	40.00 %
DISPERBYK-180	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.



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

Position	Component	Supplier	Function	Pigment		Elftex 415		Special Black 4		Color black FW 285		Carbon Black FW 171	
				Supplier	Heliogen Blue L 7085 Sun Chemicals (DIC)	Heuco Green 600734 Heubach	Cabot Corporation	Orion Engineered Carbons	Orion Engineered Carbons	Orion Engineered Carbons			
				PB 15:1	PG 7	PBk 7	PBk 7	PBk 7	PBk 7	PBk 7	PBk 7	PBk 7	PBk 7
1	Demineralized water		Carrier/solvent	36.70	33.90	43.90	43.90	46.40	49.40				
2	DISPERBYK-2012	BYK	Wetting and dispersing	30.00	25.00	35.00	35.00	37.50	31.50				
3	DISPERBYK-180	BYK	Wetting and dispersing	-	-	-	-	-	-				
4	BYK-012	BYK	Defoamer	2.00	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	-	-	-	-	-	-				
7	Pigment (see headline)	See headline	Pigment	30.00	40.00	20.00	20.00	15.00	18.00				
Total				100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Instructions

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

70.00

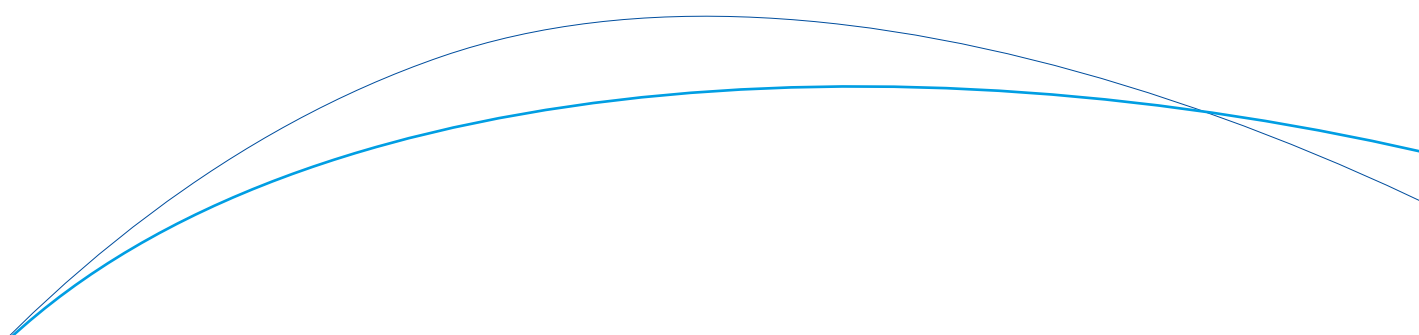
Characteristic data

Additive dosage (solids on pigment)

DISPERBYK-2012	40.00 %	25.00 %	70.00 %	70.00 %	100.00 %	70.00 %
DISPERBYK-180	4.00 %	-	-	-	-	-

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.



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

Position	Component	Supplier	Function	Pigment	Emperor
				Raven 5000 Ultra III Birla Carbon	2000 Cabot Corporation
				PBI 7	PBI 7
1	Demineralized water		Carrier/solvent	49.40	49.40
2	DISPERBYK-2012	BYK	Wetting and dispersing	31.50	31.50
3	DISPERBYK-180	BYK	Wetting and dispersing	-	-
4	BYK-012	BYK	Defoamer	1.00	1.00
5	Preservative			0.10	0.10
6	RHEOBYK-D 420	BYK	Anti-settling	-	-
7	Pigment (see headline)	See headline	Pigment	18.00	18.00
Total				100.00	100.00

Instructions

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

Characteristic data

Additive dosage (solids on pigment)

	PBI 7	PBI 7
DISPERBYK-2012	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!
The required grinding viscosity depends on the grinding equipment and must be adapted.

BYK-Chemie GmbH
Abelstraße 45
46483 Wesel
Germany
Tel +49 281 670-0
Fax +49 281 65735

info@byk.com
www.byk.com

ADD-MAX®, ADD-VANCE®, ANTI-TERRA®, AQUACER®, AQUAMAT®, AQUATIX®, BENTOLITE®, BYK®, BYK-AQUAGEL®, BYK-DYNWET®, BYK-MAX®, BYK-SILCLEAN®, BYKANOL®, BYKCARE®, BYKETOL®, BYKJET®, BYKOZBLOCK®, BYKONITE®, BYKOPLAST®, BYKUMEN®, CARBOBYK®, CERACOL®, CERAFAC®, CERAFLOUR®, CERAMAT®, CERATIX®, CLAYTONE®, CLOISITE®, DISPERBYK®, DISPERPLAST®, FULACOLOR®, FULCAT®, GARAMITE®, GELWHITE®, HORDAMER®, LACTIMON®, LAPONITE®, MINERPOL®, NANOBYK®, OPTIBENT®, OPTIFLO®, OPTIGEL®, POLYAD®, PRIEX®, PURABYK®, PURE THIX®, RECYCLOBLEND®, RECYCLOBYK®, RECYCLOSSORB®, RECYCLOSTAB®, RHEOBYK®, RHEOCIN®, RHEOTIX®, SCONA®, SILBYK®, TIXOGEL® and VISCOBYK® are registered trademarks of the BYK group.

The information herein is based on our present knowledge and experience. The information merely describes the properties of our products but no guarantee of properties in the legal sense shall be implied. We recommend testing our products as to their suitability for your envisaged purpose prior to use. No warranties of any kind, either express or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding any products mentioned herein and data or information set forth, or that such products, data or information may be used without infringing intellectual property rights of third parties. We reserve the right to make any changes according to technological progress or further developments.

This issue replaces all previous versions.

