

Starting point formulation – Pigment concentrates for solvent-borne systems with DISPERBYK-2055

Position	Component	Supplier	Function	Pigment	Pigment	Pigment	Pigment	Pigment	Pigment
				Supplier	Kronos 2360 Kronos International	Bayferrox 3920 Lanxess	Novoperm Yellow F2G Heubach	Paliotol Yellow L 2140 HD Sun Chemical (DIC)	Hostaperm Yellow H4G Heubach
				PW 6	PY 42	PY 194	PY 139	PY 151	PO 36
1	Laropal A 81 (60% solids, in PMA)	BASF	Binder	20.00	28.00	43.50	23.80	36.50	25.00
2	1-Methoxy-2-propyl acetate		Solvent	13.30	16.50	31.70	27.40	21.50	26.50
3	DISPERBYK-2055	BYK	Wetting and dispersing	1.30	5.00	4.00	8.00	7.00	9.50
4	BYK-SYNERGIST 2100	BYK	Wetting and dispersing	-	-	-	-	-	-
5	BYK-SYNERGIST 2105	BYK	Wetting and dispersing	-	-	0.80	0.80	-	1.00
6	GARAMITE-7305	BYK	Anti-settling	0.40	0.50	-	-	-	-
7	Pigment (see headline)	See headline	Pigment	65.00	50.00	20.00	40.00	35.00	38.00
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-2055	2.00 %	10.00 %	20.00 %	20.00 %	20.00 %	25.00 %
BYK-SYNERGIST 2100	-	-	4.00 %	2.00 %	-	-
BYK-SYNERGIST 2105	-	-	-	-	-	2.50 %

Pigment : binder ratio (solid : solid binder)	5.40 : 1	3.00 : 1	0.80 : 1	2.80 : 1	1.60 : 1	2.50 : 1
---	----------	----------	----------	----------	----------	----------

Remark

Exchanging a solvent or a pigment in the formulation may change viscosity!
The required grinding viscosity depends on the grinding equipment and must be adapted.

Starting point formulation – Pigment concentrates for solvent-borne systems with DISPERBYK-2055

Position	Component	Supplier	Function	Pigment		Bayferrox	Novoperm	Irgazin Red	Hostaperm
				Irgazin Orange L 2990 HD Sun Chemical (DIC)	Paliotol Orange L 2930 HD Sun Chemical (DIC)	130M Lanxess	Red F3RK 70 Clarinat	L 3670 HD Sun Chemical (DIC)	Pink E Clarinat
				PO 73	PO 67	PR 101	PR 170	PR 254	PR 122
1	Laropal A 81 (60% solids, in PMA)	BASF	Binder	41.10	34.20	25.00	40.20	41.50	39.70
2	1-Methoxy-2-propyl acetate		Solvent	27.10	23.00	8.60	12.50	18.00	36.00
3	DISPERBYK-2055	BYK	Wetting and dispersing	6.30	7.00	6.00	12.30	9.00	6.30
4	BYK-SYNERGIST 2100	BYK	Wetting and dispersing	-	-	-	-	-	-
5	BYK-SYNERGIST 2105	BYK	Wetting and dispersing	0.50	0.80	-	-	1.50	-
6	GARAMITE-7305	BYK	Anti-settling	-	-	0.40	-	-	-
7	Pigment (see headline)	See headline	Pigment	25.00	35.00	60.00	35.00	30.00	18.00
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-2055	25.00 %	20.00 %	10.00 %	35.00 %	30.00 %	35.00 %
BYK-SYNERGIST 2100	2.00 %	2.20 %	-	-	-	-
BYK-SYNERGIST 2105	-	-	-	-	5.00 %	-

Pigment : binder ratio (solid : solid binder)	1.00 : 1	1.70 : 1	4.00 : 1	1.50 : 1	1.20 : 1	0.80 : 1
---	----------	----------	----------	----------	----------	----------

Remark

Exchanging a solvent or a pigment in the formulation may change viscosity!
The required grinding viscosity depends on the grinding equipment and must be adapted.

Starting point formulation – Pigment concentrates for solvent-borne systems with DISPERBYK-2055

Position	Component	Supplier	Function	Pigment					
				PV 19	PV 23	PB 15:2	PB 15:4	PG 7	PBk 7
				Hostaperm Red Violet ER 02 Heubach	Hostaperm Violet RL-NF Heubach	Heliogen Blue L 6875 F Sun Chemical (DIC)	Heliogen Blue L 7101 F Sun Chemical (DIC)	Heliogen Green L 8730 Sun Chemical (DIC)	Special Black 4 Orion Engineered Carbons
1	Laropal A 81 (60% solids, in PMA)	BASF	Binder	34.60	36.00	37.00	33.80	42.00	37.50
2	1-Methoxy-2-propyl acetate		Solvent	42.00	47.20	36.00	41.00	27.40	34.50
3	DISPERBYK-2055	BYK	Wetting and dispersing	5.40	4.80	6.00	6.30	6.90	8.00
4	BYK-SYNERGIST 2100	BYK	Wetting and dispersing	-	-	1.00	0.90	0.70	-
5	BYK-SYNERGIST 2105	BYK	Wetting and dispersing	-	-	-	-	-	-
6	GARAMITE-7305	BYK	Anti-settling	-	-	-	-	-	-
7	Pigment (see headline)	See headline	Pigment	18.00	12.00	20.00	18.00	23.00	20.00
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-2055	30.00 %	40.00 %	30.00 %	35.00 %	30.00 %	40.00 %
BYK-SYNERGIST 2100	-	-	5.00 %	5.00 %	3.00 %	-
BYK-SYNERGIST 2105	-	-	-	-	-	-

Pigment : binder ratio (solid : solid binder)	0.90 : 1	0.60 : 1	0.90 : 1	0.90 : 1	0.90 : 1	0.90 : 1
---	----------	----------	----------	----------	----------	----------

Remark

Exchanging a solvent or a pigment in the formulation may change viscosity!
The required grinding viscosity depends on the grinding equipment and must be adapted.

Starting point formulation – Pigment concentrates for solvent-borne systems with DISPERBYK-2055

Position	Component	Supplier	Function	Pigment Color Black FW 200 Supplier Orion Engineered Carbons	PBk 7
1	Laropal A 81 (60 % solids, in PMA)	BASF	Binder		60.60
2	1-Methoxy-2-propyl acetate		Solvent		23.00
3	DISPERBYK-2055	BYK	Wetting and dispersing		8.00
4	BYK-SYNERGIST 2100	BYK	Wetting and dispersing		0.40
5	BYK-SYNERGIST 2105	BYK	Wetting and dispersing		-
6	GARAMITE-7305	BYK	Anti-settling		-
7	Pigment (see headline)	See headline	Pigment		8.00
Total					100.00

Instructions

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

Characteristic data

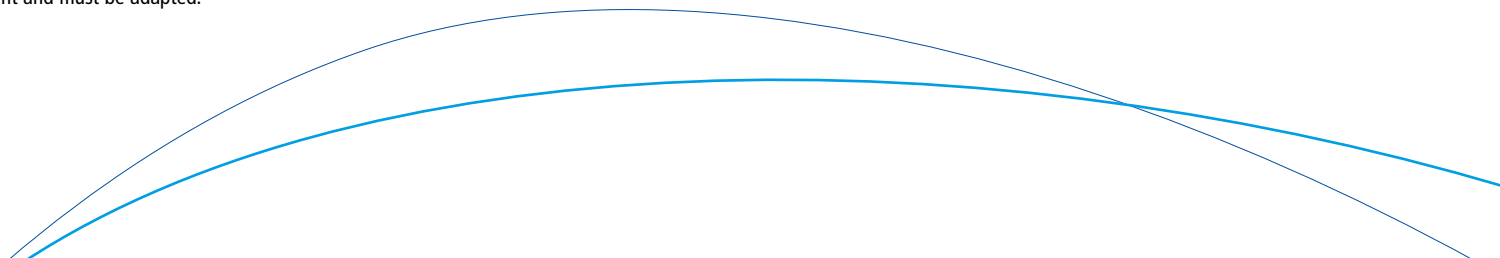
Additive dosage (solids on pigment)

DISPERBYK-2055	100.00 %
BYK-SYNERGIST 2100	5.00 %
BYK-SYNERGIST 2105	-

Pigment : binder ratio (solid : solid binder) 0.20 : 1

Remark

Exchanging a solvent or a pigment in the formulation may change 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®, CERAFAK®, 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.

