

Starting point formulation – Pigment concentrates for solvent-borne systems with DISPERBYK-2155

Position	Component	Supplier	Function	Pigment	Pigment	Pigment	Pigment	Pigment	Pigment
				Supplier	Kronos 2360 Kronos International	Bayferrox 3920 Lanxess	Novoperm Yellow 5GD 71 Heubach	Novoperm Yellow F2G Heubach	Novoperm Orange HL 70 Heubach
				PW 6	PY 42	PY 155	PY 194	PO 36	PR 101
1	Laropal A 81 (60% solids, in PMA)	BASF	Binder	20.00	23.00	33.50	33.50	25.00	25.00
2	1-Methoxy-2-propyl acetate		Solvent	13.00	17.40	18.50	18.50	26.70	7.00
3	DISPERBYK-2155	BYK	Wetting and dispersing	1.60	4.10	8.00	8.00	9.50	7.20
4	BYK-SYNERGIST 2100	BYK	Wetting and dispersing	-	-	-	-	-	-
5	BYK-SYNERGIST 2105	BYK	Wetting and dispersing	-	-	-	-	0.80	-
6	GARAMITE-7305	BYK	Anti-settling	0.40	0.50	-	-	-	0.80
7	Pigment (see headline)	See headline	Color	65.00	55.00	40.00	40.00	38.00	60.00
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-2155	2.50 %	7.50 %	20.00 %	20.00 %	25.00 %	12.00 %
BYK-SYNERGIST 2100	-	-	-	-	-	-
BYK-SYNERGIST 2105	-	-	-	-	2.20 %	-

Pigment : binder ratio (solid : solid binder)	5.40 : 1	4.00 : 1	2.00 : 1	2.00 : 1	2.50 : 1	4.00 : 1
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Remark

Exchanging a solvent or a pigment 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					
				Novoperm Red F3RK 70 Heubach	Hostaperm Red D2G 70 Heubach	Hostaperm Pink E Heubach	Hostaperm Violet RL-NF PV 23	Heliogen Blue L 7101 F Sun Chemical (DIC)	Heliogen Green L 8730 Sun Chemical (DIC)
				PR 170	PR 254	PR 122	PV 23	PB 15:4	PG 7
1	Laropal A 81 (60% solids, in PMA)	BASF	Binder	33.50	38.00	20.00	36.00	33.50	42.00
2	1-Methoxy-2-propyl acetate		Wetting and dispersing	12.50	15.40	55.70	47.40	38.50	27.40
3	DISPERBYK-2155	BYK	Wetting and dispersing	14.00	9.80	6.30	4.60	7.00	6.90
4	BYK-SYNERGIST 2100	BYK	Wetting and dispersing	-	-	-	-	1.00	0.70
5	BYK-SYNERGIST 2105	BYK	Wetting and dispersing	-	1.80	-	-	-	-
6	GARAMITE-7305	BYK	Anti-settling	-	-	-	-	-	-
7	Pigment (see headline)	See headline	Color	40.00	35.00	18.00	12.00	20.00	23.00
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-2155	35.00 %	28.00 %	35.00 %	38.00 %	35.00 %	30.00 %
BYK-SYNERGIST 2100	-	-	-	-	5.00 %	3.00 %
BYK-SYNERGIST 2105	-	5.00 %	-	-	-	-

Pigment : binder ratio (solid : solid binder)	2.00 : 1	1.50 : 1	1.50 : 1	0.60 : 1	1.00 : 1	0.90 : 1
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Remark

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Position	Component	Supplier	Function	Pigment	Special Black 4	Color Black FW 200	Printex L
				Supplier	Orion Engineered Carbons	Orion Engineered Carbons	Orion Engineered Carbons
				PG 36	PBk 7	PBk 7	PBk 7
1	Laropal A 81 (60 % solids, in PMA)	BASF	Binder	42.60	52.10	33.30	55.10
2	1-Methoxy-2-propyl acetate		Wetting and dispersing	26.80	17.10	38.90	14.10
3	DISPERBYK-2155	BYK	Wetting and dispersing	6.90	8.80	12.00	8.80
4	BYK-SYNERGIST 2100	BYK	Wetting and dispersing	0.70	-	0.80	-
5	BYK-SYNERGIST 2105	BYK	Wetting and dispersing	-	-	-	-
6	GARAMITE-7305	BYK	Anti-settling	-	-	-	-
7	Pigment (see headline)	See headline	Color	23.00	22.00	15.00	22.00
Total				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-2155	30.00 %	40.00 %	80.00 %	40.00 %
BYK-SYNERGIST 2100	3.00 %	-	5.00 %	-
BYK-SYNERGIST 2105	-	-	-	-

Pigment : binder ratio (solid : solid binder)

0.90 : 1	0.70 : 1	0.80 : 1	0.70 : 1
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Remark

Exchanging a solvent or a pigment in the formulation may change the viscosity!
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BYK-Chemie GmbH
Abelstraße 45
46483 Wesel
Germany
Tel +49 281 670-0
Fax +49 281 65735

info@byk.com
www.byk.com

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This issue replaces all previous versions.

