

Starting point formulation – Pigment concentrates based on castor oil with DISPERBYK-2155 TF

				Pigment	Bayferrox 3910	Hostaperm Yellow H3G	Bayferrox 120 M	Novoperm Red F3RK 70
				Supplier	Kronos International	Lanxess	Lanxess	Sudarshan
Position	Component	Supplier	Function	PW 6	PY 42	PY 154	PR101	PR 170
1	Castor oil PU quality		Resin	38.20	2.70	71.90	38.10	56.20
2	DISPERBYK-2155 TF	BYK	Wetting and dispersing	1.50	4.00	5.60	6.60	8.80
3	BYK-SYNERGIST 2100	BYK	Wetting and dispersing	-	-	-	-	-
4	RHEOBYK-7410 ET	BYK	Anti-settling	0.30	0.30	-	0.30	-
5	Pigment	See headline	Color	60.00	53.00	22.50	55.00	35.00
Total				100.00	100.00	100.00	100.00	100.00

Instructions

Add the materials one by one while stirring.

Characteristic data

Additive dosage (solids on pigment)

	PW 6	PY 42	PY 154	PR101	PR 170
DISPERBYK-2155 TF	2.50 %	7.50 %	25.00 %	12.00 %	25.00 %

Grinding process:

The pigment concentrates are manufactured by using a pearl mill (DISPERMAT CV) at 20 °C with a Teflon disk (Ø = 4 cm) according to:

Pigment	Time (min)	Speed RPM	Glass beads: coating
TiO ₂	30	8,000 (17 m/s)	1:1
Inorganic	40	8,000 (17 m/s)	1:1
Organic	40	10,000 (21 m/s)	1:1
Carbon black	60	10,000 (21 m/s)	1:1

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				Pigment	Hostaperm Pink E	COLORTHERM Green GN-M	Heliogen Green L 8735	Heliogen Blue L 7101 F	Special Black 4
				Supplier	Sudarshan	Lanxess	Sun Chemical	Sun Chemical	Orion Engin
Position	Component	Supplier	Function	PR 122	PG17	PG 7	PB 15:4	PB 9	
1	Castor oil PU quality		Resin	80.50	40.80	80.40	80.00	80.50	
2	DISPERBYK-2155 TF	BYK	Wetting and dispersing	4.50	3.90	4.00	4.50	4.50	
3	BYK-SYNERGIST 2100	BYK	Wetting and dispersing	-	-	0.60	0.50	-	
4	RHEOBYK-7410 ET	BYK	Anti-settling	-	0.30	-	-	-	
5	Pigment	See headline	Color	15.00	55.00	15.00	15.00	15.00	
Total				100.00	100.00	100.00	100.00	100.00	

Instructions

Add the materials one by one while stirring.

Characteristic data

Additive dosage (solids on pigment)

	PR 122	PG17	PG 7	PB 15:4	PB 9
DISPERBYK-2155 TF	30.00 %	7.00 %	27.00/4.00 %	30.00/3.00 %	30.00 %

Grinding process:

The pigment concentrates are manufactured by using a pearl mill (DISPERMAT CV) at 20 °C with a Teflon disk (Ø = 4 cm) according to:

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