

Starting Formulation

Pigment concentrates for solvent free UV systems with DISPERBYK-2013

				Kronos 2310	Bayferrox 130M	Irgazin Red L3660 HD	Hostaperm Yellow H4G	Heliogen blue L6875F
Pos.	Component	Supplier	Pigment Suppliers Function	Tronox	Lanxcess	BASF	Clariant	BASF
1	DPGDA*	BASF	Monomer	22.5	31.8	54.0	47.5	70.9
3	BYK-1788	BYK	Defoamer	0.5	0.5	0.5	0.5	0.5
4	BYK-410	BYK	Rheology	0.5	0.5	-	-	-
5	DISPERBYK-2013	BYK	Wetting & Dispering	1.5	7.2	10.5	12.0	6.6
7	Pigment			75.0	60.0	35.0	40.0	22.0
Total				100.0	100.0	100.0	100.0	100.0
% Additive dosage (solids on pigment)				2.0	12.0	30.0	30.0	30.0

*DPGDA= Dipropylene Glycol Diacrylate

Instructions

Premix Pos. 1-4, add pigment and add 1:1 glass beads (1,3mm) and disperse (grinding) well

Grinding conditions:

TiO₂: 30 min., 8000rpm, 40°C
Iron oxide Red: 30 min., 8000rpm, 40°C
Org. Pigments: 40 min., 10000rpm, 40°C
Carbon black: 60 min., 10000rpm, 40°C

ACTAL®, ADD-MAX®, ADD-VANCE®, ADJUST®, ADVITROL®, ANTI-TERRA®, AQUACER®, AQUAMAT®, AQUATIX®, BENTOLITE®, BYK®, BYK®-DYNWET®, BYK® MAX®, BYK® SILCLEAN®, BYKANOL®, BYKETOL®, BYKJET®, BYKO2BLOCK®, BYKOPLAST®, BYKUMEN®, CARBOBYK®, CERACOL®, CERAFAK®, CERAFLOUR®, CERAMAT®, CERATIX®, CLAYTONE®, CLOISITE®, DISPERBYK®, DISPERPLAST®, FULACOLOR®, FULCAT®, GARAMITE®, GELWHITE®, HORDAMER®, LACTIMON®, LAPONITE®, MINERAL COLLOID®, MINERPOL®, NANOBYPK®, OPTIBENT®, OPTIFLO®, OPTIGEL®, PAPERBYK®, PERMONT®, POLYAD®, PRIEX®, PURE THIX®, RECYCLOBLEND®, RECYCLOBYK®, RECYCLOSSORB®, RECYCLOSTAB®, RHEOBYK®, RHEOCIN®, RHEOTIX®, SCONA®, SILBYK®, TIXOGEL®, VISCOBYK® and Y 25® 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.

Starting Formulation

Pigment concentrates for solvent free UV systems with DISPERBYK-2013

				Heliogen green L8730	Special black 100
				BASF	Orion Engineered Carbons
Pos.	Component	Supplier	Pigment Suppliers Function		
1	DPGDA*	BASF	Monomer	68.5	50.5
3	BYK-1788	BYK	Defoamer	0.5	0.5
4	BYK-410	BYK	Rheology	-	-
5	DISPERBYK-2013	BYK	Wetting & Dispering	8.0	14.0
7	Pigment			23.0	35.0
Total				100.0	100.0
% Additive dosage (solids on pigment)				35.0	40.0

*DPGDA= Dipropylene Glycol Diacrylate

Instructions

Premix Pos. 1-4, add pigment and add 1:1 glass beads (1,3mm) and disperse (grinding) well

Grinding conditions:

TiO₂: 30 min., 8000rpm, 40°C
Iron oxide Red: 30 min., 8000rpm, 40°C
Org. Pigments: 40 min., 10000rpm, 40°C
Carbon black: 60 min., 10000rpm, 40°C

ACTAL®, ADD-MAX®, ADD-VANCE®, ADJUST®, ADVITROL®, ANTI-TERRA®, AQUACER®, AQUAMAT®, AQUATIX®, BENTOLITE®, BYK®, BYK®-DYNWET®, BYK® MAX®, BYK® SILCLEAN®, BYKANOL®, BYKETOL®, BYKJET®, BYKO2BLOCK®, BYKOPLAST®, BYKUMEN®, CARBOBYK®, CERACOL®, CERAFAK®, CERAFLOUR®, CERAMAT®, CERATIX®, CLAYTONE®, CLOISITE®, DISPERBYK®, DISPERPLAST®, FULACOLOR®, FULCAT®, GARAMITE®, GELWHITE®, HORDAMER®, LACTIMON®, LAPONITE®, MINERAL COLLOID®, MINERPOL®, NANOBYPK®, OPTIBENT®, OPTIFLO®, OPTIGEL®, PAPERBYK®, PERMONT®, POLYAD®, PRIEX®, PURE THIX®, RECYCLOBLEND®, RECYCLOBYK®, RECYCLOSSORB®, RECYCLOSTAB®, RHEOBYK®, RHEOCIN®, RHEOTIX®, SCONA®, SILBYK®, TIXOGEL®, VISCOBYK® and Y 25® 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.