

## Starting point formulation – Pigment concentrates for solvent-free UV systems with DISPERBYK-2013

<b>Pigment</b>	<b>Kronos 2310</b>	<b>Bayferrox 130M</b>	<b>Irgazin Red L3660 HD</b>	<b>Hostaperm Yellow H4G</b>	<b>Heliogen blue L6875F</b>	<b>Heliogen green L8730</b>	<b>Special black 100</b>
<b>Supplier</b>	Tronox	Lanxess	BASF	Heubach	BASF	BASF	Orion Engineered Carbons

Position	Component	Supplier	Function	PW 6	PR 101	PR 254	PY 151	PB 15:2	PG 7	PB 7
1	DPGDA*	BASF	Monomer	22.50	31.80	54.00	47.50	70.90	68.50	50.50
2	BYK-1788	BYK	Defoamer	0.50	0.50	0.50	0.50	0.50	0.50	0.50
3	RHEOBYK-7410 ET	BYK	Rheology	0.50	0.50	-	-	-	-	-
4	DISPERBYK-2013	BYK	Wetting and dispersing	1.50	7.20	10.50	12.00	6.60	8.00	14.00
5	Pigment	See headline	Color	75.00	60.00	35.00	40.00	22.00	23.00	35.00
<b>Total</b>				<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>

### Instructions

Premix position 1–4, add pigment and add 1:1 glass beads (1.3 mm) and disperse (grinding) well.

### Characteristic data

Additive dosage (solids on pigment)

DISPERBYK-2013	2.00%	12.00%	30.00%	30.00%	30.00%	35.00%	40.00%
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### Grinding process:

Pigment	Time (min)	Speed RPM	Temperature
TiO <sub>2</sub> :	30 min	8,000 rpm	40 °C
Iron oxide red:	30 min	8,000 rpm	40 °C
Org. pigments:	40 min	10,000 rpm	40 °C
Carbon black:	60 min	10,000 rpm	40 °C

\* DPGDA: Dipropylene glycol diacrylate

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This issue replaces all previous versions.

