

## Starting Formulation

Pigment concentrates for solvent-borne systems based on DISPERBYK-2155

Pos.	Component	Supplier	Function	TiONA 595	Kronos 2064	Kronos 2160	Bayferrox 915	Novoperm Yellow HR 70
				PW 6	PW 6	PW 6	PY 42	PY 83
			Pigment supplier	Cristal	Kronos International	Kronos International	Lanxess	Clariant
1	Short Oil Alkyd (75% solids, BuAc)		Resin	25.4	25.4	22.0	28.0	43.0
2	Butyl acetate (BuAc)		Solvent	13.0	13.0	11.3	16.6	27.0
3	<b>DISPERBYK-2155</b>	<b>BYK</b>	<b>Wetting &amp; Dispersing</b>	<b>1.2</b>	<b>1.2</b>	<b>1.3</b>	<b>5.0</b>	<b>5.0</b>
4	<b>BYK-SYNERGIST 2100</b>	<b>BYK</b>	<b>Wetting &amp; Dispersing</b>					
5	Aerosil R 927	Evonik	Anti-settling	0.4	0.4	0.4	0.4	
6	Pigment	headline	Color	60.0	60.0	65.0	50.0	25.0

### Instructions

Premix position 1-5, add pigment and disperse (grind) well (beads are recommended)

### Characteristic Data

% Additive Dosage (solids on pigment)

<b>DISPERBYK-2155</b>	<b>2.0</b>	<b>2.0</b>	<b>2.0</b>	<b>10.0</b>	<b>20.0</b>
<b>BYK-SYNERGIST 2100</b>					

Pigment/binder ratio (solid : solid binder) 3.1 : 1 3.1 : 1 3.9 : 1 2.4 : 1 0.8 : 1

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## Remark

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Pigment concentrates for solvent-borne systems based on DISPERBYK-2155

Pos.	Component	Supplier	Function	Hostaperm Yellow H4G	Sicopal Yellow L 1100	Novoperm Orange HL 70	Irgazin Orange L 3250 HD	Bayferrox 130 M
				Clariant	BASF	Clariant	BASF	Lanxess
Pigment supplier				PY 151	PY 184	PO 36	PO 73	PR 101
1	Short Oil Alkyd (75% solids, BuAc)		Resin	37.0	25.1	35.0	41.5	24.0
2	Butyl acetate (BuAc)		Solvent	26.7	19.5	29.0	26.0	13.8
3	<b>DISPERBYK-2155</b>	<b>BYK</b>	<b>Wetting &amp; Dispersing</b>	<b>6.0</b>	<b>5.0</b>	<b>6.0</b>	<b>7.5</b>	<b>6.6</b>
4	<b>BYK-SYNERGIST 2100</b>	<b>BYK</b>	<b>Wetting &amp; Dispersing</b>					
5	Aerosil R 927	Evonik	Anti-settling	0.3	0.4			0.6
6	Pigment	headline	Color	30.0	50.0	30.0	25.0	55.0

### Instructions

Premix position 1-5, add pigment and disperse (grind) well (beads are recommended)

### Characteristic Data

% Additive Dosage (solids on pigment)

<b>DISPERBYK-2155</b>	<b>20.0</b>	<b>10.0</b>	<b>20.0</b>	<b>30.0</b>	<b>12.0</b>
<b>BYK-SYNERGIST 2100</b>					

Pigment/binder ratio (solid : solid binder) 1.1 : 1 2.7 : 1 1.1 : 1 0.8 : 1 3.1 : 1

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## Remark

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- 2) The required grinding viscosity depends on the grinding equipment and must be adapted.

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Pigment concentrates for solvent-borne systems based on DISPERBYK-2155

Pos.	Component	Supplier	Function	Irgazin Red	Irgazin Scarlet	Cinquasia	Hostaperm	Hostaperm
				L 3670 HD	L 3550 HD	Magenta	Pink E	Violett
				L 4400	RL-NF			
Pigment supplier				BASF	BASF		Clarinat	Clarinat
				PR 254	PR 255	PR 282	PR 122	PV 23
1	Short Oil Alkyd (75% solids, BuAc)		Resin	34.5	40.0	42.0	40.0	48.0
2	Butyl acetate (BuAc)		Solvent	28.0	27.5	33.0	36.6	35.0
3	<b>DISPERBYK-2155</b>	<b>BYK</b>	<b>Wetting &amp; Dispersing</b>	<b>7.5</b>	<b>7.5</b>	<b>5.0</b>	<b>5.4</b>	<b>4.8</b>
4	<b>BYK-SYNERGIST 2100</b>	<b>BYK</b>	<b>Wetting &amp; Dispersing</b>					<b>0.2</b>
5	Aerosil R 927	Evonik	Anti-settling					
6	Pigment	headline	Color	30.0	25.0	20.0	18.0	12.0

### Instructions

Premix position 1-5, add pigment and disperse (grind) well (beads are recommended)

### Characteristic Data

% Additive Dosage (solids on pigment)

<b>DISPERBYK-2155</b>	<b>25.0</b>	<b>30.0</b>	<b>25.0</b>	<b>30.0</b>	<b>40.0</b>
<b>BYK-SYNERGIST 2100</b>					<b>1.7</b>

Pigment/binder ratio (solid : solid binder) 1.2 : 1 0.8 : 1 0.6 : 1 0.6 : 1 0.3 : 1

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Pigment concentrates for solvent-borne systems based on DISPERBYK-2155

Pos.	Component	Supplier	Pigment supplier Function	Heliogen Blue L 6875 F	Heliogen Green L 8730	Special black 4 Powder	Raven 420
				BASF	BASF	Orion Engineered Carbons	Birla Carbon
				PB 15:2	PG 7	PBk 7	PBk 7
1	Short Oil Alkyd (75% solids, BuAc)		Resin	43.0	38.0	39.5	42.8
2	Butyl acetate (BuAc)		Solvent	31.0	30.4	28.0	27.5
3	<b>DISPERBYK-2155</b>	<b>BYK</b>	<b>Wetting &amp; Dispersing</b>	<b>6.0</b>	<b>8.1</b>	<b>10.5</b>	<b>7.7</b>
4	<b>BYK-SYNERGIST 2100</b>	<b>BYK</b>	<b>Wetting &amp; Dispersing</b>		<b>0.5</b>		
5	Aerosil R 927	Evonik	Anti-settling				
6	Pigment	headline	Color	20.0	23.0	22.0	22.0

### Instructions

Premix position 1-5, add pigment and disperse (grind) well (beads are recommended)

### Characteristic Data

% Additive Dosage (solids on pigment)

<b>DISPERBYK-2155</b>	<b>30.0</b>	<b>35.0</b>	<b>40.0</b>	<b>35.0</b>
<b>BYK-SYNERGIST 2100</b>		<b>2.0</b>		

Pigment/binder ratio (solid : solid binder)

0.6 : 1	0.8 : 1	0.7 : 1	0.7 : 1
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