

## Starting Formulation

Pigment concentrates for solvent-borne systems

Pos.	Component	Supplier	Function	Kronos 2310	Ti-Pure R 960	Bayferrox 3920	Bayferrox 120M	Novoperm Red F3RK 70
				PW 6	PW 6	PY 42	PR 101	PR 170
			<b>Pigment supplier</b>	Kronos International	Du Pont	Lanxess	Lanxess	Clarinat
1	Laropal A 81 (60% solids, in PMA)	BASF	Binder	20.0	20.0	23.0	25.0	33.5
2	1-Methoxy-2-propyl acetate		Solvent	13.3	13.3	17.7	14.0	13.7
3	<b>DISPERBYK-2013</b>	<b>BYK</b>	<b>Wetting &amp; Dispersing</b>	<b>1.3</b>	<b>1.3</b>	<b>3.9</b>	<b>5.5</b>	<b>12.0</b>
4	<b>BYK-SYNERGIST 2100</b>	<b>BYK</b>	<b>Wetting &amp; Dispersing</b>					
5	<b>BYK-SYNERGIST 2105</b>	<b>BYK</b>	<b>Wetting &amp; Dispersing</b>					<b>0.8</b>
6	<b>GARAMITE-7305</b>	<b>BYK</b>	<b>Anti-settling</b>	<b>0.4</b>	<b>0.4</b>	<b>0.5</b>	<b>0.5</b>	
7	Pigment & Color Index (see headline)	see headline	Pigment	65.0	65.0	55.0	55.0	40.0

### Instructions

Premix position 1-6, add pigment and disperse (grind) well

### Characteristic Data

% Additive dosage (solids on pigment)

<b>DISPERBYK-2013</b>	<b>2.0</b>	<b>2.0</b>	<b>7.0</b>	<b>10.0</b>	<b>30.0</b>
<b>BYK-SYNERGIST 2100</b>					
<b>BYK-SYNERGIST 2105</b>					<b>2.0</b>

Pigment-binder ratio (solid : solid binder) 5.4 : 1 5.4 : 1 4.0 : 1 3.7 : 1 2.0 : 1

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## Remark

- 1) Exchanging a solvent or a pigment in the formulation may change the viscosity!
- 2) The required grinding viscosity depends on the grinding equipment and must be adapted.

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## Starting Formulation

Pigment concentrates for solvent-borne systems

Pos.	Component	Supplier	Function	Hostaperm Pink E	Hostaperm Violet RL-NF	Heliogen Blue L7085	Heliogen Blue L7101F	Heliogen Green L8735
				Clarinat	Clariant	BASF	BASF	BASF
		Pigment supplier		PR 122	PV 23	PB 15:3	PB 15:4	PG 7
1	Laropal A 81 (60% solids, in PMA)	BASF	Binder	20.0	36.0	45.1	33.5	42.1
2	1-Methoxy-2-propyl acetate		Solvent	57.0	43.3	28.2	40.0	25.7
3	<b>DISPERBYK-2013</b>	<b>BYK</b>	<b>Wetting &amp; Dispersing</b>	<b>5.0</b>	<b>5.7</b>	<b>7.2</b>	<b>6.0</b>	<b>8.3</b>
4	<b>BYK-SYNERGIST 2100</b>	<b>BYK</b>	<b>Wetting &amp; Dispersing</b>			<b>0.5</b>	<b>0.5</b>	<b>0.9</b>
5	<b>BYK-SYNERGIST 2105</b>	<b>BYK</b>	<b>Wetting &amp; Dispersing</b>					
6	<b>GARAMITE-7305</b>	<b>BYK</b>	<b>Anti-settling</b>					
7	Pigment & Color Index (see headline)	see headline	Pigment	18.0	15.0	19.0	20.0	23.0

### Instructions

Premix position 1-6, add pigment and disperse (grind) well

### Characteristic Data

% Additive dosage (solids on pigment)

<b>DISPERBYK-2013</b>	<b>28.0</b>	<b>38.0</b>	<b>38.0</b>	<b>30.0</b>	<b>36.0</b>
<b>BYK-SYNERGIST 2100</b>			<b>2.5</b>	<b>2.5</b>	<b>4.0</b>
<b>BYK-SYNERGIST 2105</b>					

Pigment-binder ratio (solid : solid binder)

1.5 : 1	0.7 : 1	0.7 : 1	1.0 : 1	0.9 : 1
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				Orion Engineered Carbons
				PBk 7
1	Laropal A 81 (60% solids, in PMA)	BASF	Binder	45.3
2	1-Methoxy-2-propyl acetate		Solvent	26.7
3	<b>DISPERBYK-2013</b>	<b>BYK</b>	<b>Wetting &amp; Dispersing</b>	<b>8.0</b>
4	<b>BYK-SYNERGIST 2100</b>	<b>BYK</b>	<b>Wetting &amp; Dispersing</b>	
5	<b>BYK-SYNERGIST 2105</b>	<b>BYK</b>	<b>Wetting &amp; Dispersing</b>	
6	<b>GARAMITE-7305</b>	<b>BYK</b>	<b>Anti-settling</b>	
7	Pigment & Color Index (see headline)	see headline	Pigment	20.0

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Premix position 1-6, add pigment and disperse (grind) well

### Characteristic Data

% Additive dosage (solids on pigment)

**DISPERBYK-2013** 40.0  
**BYK-SYNERGIST 2100**  
**BYK-SYNERGIST 2105**

Pigment-binder ratio (solid : solid binder)

0.7 : 1

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