

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

| | | | | Pigment Kronos 2360 Supplier Kronos International | Bayferrox 3910 Lanxess | Hostaperm Yellow H3G Heubach | Bayferrox 120 M Lanxess | Novoperm Red F3RK 70 Heubach |
|--------------|-----------------------|--------------|------------------------|---|------------------------------|------------------------------------|-------------------------------|------------------------------------|
| 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)

| | | | | | |
|-------------------|--------|--------|---------|---------|---------|
| 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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| Position | Component | Supplier | Function | Pigment | | Supplier | | Pigment | | Supplier | |
|--------------|-----------------------|--------------|------------------------|-----------------------------|----------------------------------|-------------------------------|------------------------------|--------------------------------|--|----------|--|
| | | | | Hostaperm Pink E Heubach | COLORTHERM Green GN-M Lanxess | Heliogen Green L 8735 BASF | Heliogen Blue L 7101 BASF | Special Black 4 Orion Engin | | | |
| | | | | 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)

| | | | | | |
|-------------------|---------|--------|--------------|--------------|---------|
| DISPERBYK-2155 TF | 30.00 % | 7.00 % | 27.00/4.00 % | 30.00/3.00 % | 30.00 % |
|-------------------|---------|--------|--------------|--------------|---------|

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This issue replaces all previous versions.

