

Starting point formulation – Pigment concentrates for water-based systems with DISPERBYK-199

| Position | Component | Supplier | Function | Pigment | | | | | | | |
|--------------|------------------|--------------|------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------|---------------|---------------|
| | | | | Kronos 2044 | Kronos 2190 | Kronos 2300 | Kronos 2310 | Kronos 2360 | Ti-Pure R-706 | Ti-Pure R-900 | Ti-Pure R-931 |
| Supplier | | | | Kronos International | Chemours | Chemours | Chemours |
| | | | | PW 6 | PW 6 | PW 6 | PW 6 |
| 1 | Water | | Solvent | 28.90 | 16.60 | 16.00 | 15.50 | 14.70 | 17.00 | 16.60 | 25.90 |
| 2 | Preservative | | Preservative | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| 3 | BYK-1640 | BYK | Defoamer | 0.30 | 0.40 | 0.30 | 0.30 | 0.30 | 0.30 | 0.40 | 0.30 |
| 4 | DISPERBYK-199 | BYK | Wetting and dispersing | 4.10 | 3.80 | 2.80 | 2.80 | 2.80 | 2.80 | 3.80 | 4.10 |
| 5 | OPTIGEL-WX | BYK | Anti-settling | 0.50 | 0.50 | 0.40 | 0.50 | 0.50 | 0.60 | 0.50 | 0.50 |
| 6 | ASP 170 | BASF | Filler | - | - | - | - | - | - | - | - |
| 7 | Blanc Fixe micro | Venator | Filler | - | - | - | - | - | - | - | - |
| 8 | Pigment | See headline | Color | 55.00 | 75.00 | 75.00 | 75.00 | 75.00 | 75.00 | 75.00 | 55.00 |
| 9 | BYK-1640 | BYK | Defoamer | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 |
| 10 | Water | | Solvent | 10.90 | 3.40 | 5.20 | 5.60 | 6.40 | 4.00 | 3.40 | 13.90 |
| Total | | | | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |

Instructions

Premix position 1–5, add pigment/filler and disperse well (dissolver or beads are recommended), add position 9–10 while stirring.

Characteristic data

Additive dosage (solids on pigment)

| | Kronos 2044 | Kronos 2190 | Kronos 2300 | Kronos 2310 | Kronos 2360 | Ti-Pure R-706 | Ti-Pure R-900 | Ti-Pure R-931 |
|---------------|-------------|-------------|-------------|-------------|-------------|---------------|---------------|---------------|
| DISPERBYK-199 | 3.00 % | 2.00 % | 1.50 % | 1.50 % | 1.50 % | 1.50 % | 2.00 % | 3.00 % |

Also available as a biocide-free variant (see brochure B-AN 2).



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|--------------|------------------|--------------|------------------------|---------------------|---------------------|-------------------------|-------------------------|-------------------------|---------------------------|--------------------------|--------------------------|
| | | | | Tiona 595 Tronox | Tiona 696 Tronox | Tronox CR-813 Tronox | Tronox CR-826 Tronox | Tronox CR-828 Tronox | Tioxide R-TC90 Venator | Tioxide TR 81 Venator | Tioxide TR 85 Venator |
| | | | | PW 6 | PW 6 | PW 6 | PW 6 | PW 6 | PW 6 | PW 6 | PW 6 |
| 1 | Water | | Solvent | 18.00 | 17.00 | 33.90 | 17.40 | 16.60 | 17.40 | 16.60 | 18.00 |
| 2 | Preservative | | Preservative | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| 3 | BYK-1640 | BYK | Defoamer | 0.30 | 0.30 | 0.30 | 0.30 | 0.40 | 0.30 | 0.40 | 0.30 |
| 4 | DISPERBYK-199 | BYK | Wetting and dispersing | 2.80 | 2.80 | 4.10 | 2.80 | 3.80 | 2.80 | 3.80 | 1.90 |
| 5 | OPTIGEL-WX | BYK | Anti-settling | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 |
| 6 | ASP 170 | BASF | Filler | - | - | - | - | - | - | - | - |
| 7 | Blanc Fixe micro | Venator | Filler | - | - | - | - | - | - | - | - |
| 8 | Pigment | See headline | Color | 75.00 | 75.00 | 55.00 | 75.00 | 75.00 | 75.00 | 75.00 | 75.00 |
| 9 | BYK-1640 | BYK | Defoamer | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 |
| 10 | Water | | Solvent | 3.10 | 4.10 | 5.90 | 3.70 | 3.40 | 3.70 | 3.40 | 4.00 |
| Total | | | | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |

Instructions

Premix position 1–5, add pigment/filler and disperse well (dissolver or beads are recommended), add position 9–10 while stirring.

Characteristic data

Additive dosage (solids on pigment)

| | | | | | | | | |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|
| DISPERBYK-199 | 1.50 % | 1.50 % | 3.00 % | 1.50 % | 2.00 % | 1.50 % | 2.00 % | 1.00 % |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|

Starting point formulation – Pigment concentrates for water-based systems with DISPERBYK-199

| | | | | Pigment | | Pigment | | Pigment | | Pigment | |
|--------------|------------------|--------------|------------------------|-------------------------------|-----------------------|---------------------------|---------------------------|-----------------------|-------------------------|-----------------|-----------------|
| | | | | Hansa Brilliant Yellow 2GX 70 | Chromophtal Yellow 3G | Paliotol Yellow L 0960 HD | Paliotol Yellow L 0962 HD | Novoperm Orange HL 70 | Cinilex DPP Orange SJ1C | Bayferrox 105 M | Bayferrox 110 M |
| | | | | Supplier | Supplier | Supplier | Supplier | Supplier | Supplier | Supplier | Supplier |
| Position | Component | Supplier | Function | PY 74 | PY 93 | PY 138 | PY 138 | PO 36 | PO 73 | PR 101 | PR 101 |
| 1 | Water | | Solvent | 28.90 | 29.90 | 29.90 | 30.80 | 27.90 | 28.00 | 24.50 | 24.40 |
| 2 | Preservative | | Preservative | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| 3 | BYK-1640 | BYK | Defoamer | 0.40 | 0.40 | 0.70 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 |
| 4 | DISPERBYK-199 | BYK | Wetting and dispersing | 15.00 | 20.00 | 20.00 | 16.30 | 17.50 | 17.50 | 9.60 | 9.00 |
| 5 | OPTIGEL-WX | BYK | Anti-settling | 0.40 | - | 0.30 | - | 0.30 | 0.30 | 0.50 | 0.50 |
| 6 | ASP 170 | BASF | Filler | - | - | - | 8.00 | - | - | - | - |
| 7 | Blanc Fixe micro | Venator | Filler | 15.00 | - | - | 10.00 | - | - | - | - |
| 8 | Pigment | See headline | Color | 40.00 | 40.00 | 40.00 | 25.00 | 35.00 | 35.00 | 55.00 | 60.00 |
| 9 | BYK-1640 | BYK | Defoamer | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 |
| 10 | Water | | Solvent | - | 7.40 | 8.80 | 9.20 | 18.60 | 18.50 | 9.70 | 5.40 |
| Total | | | | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |

Instructions

Premix position 1–5, add pigment/filler and disperse well (dissolver or beads are recommended), add position 9–10 while stirring.

Characteristic data

Additive dosage (solids on pigment)

| | | | | | | | | |
|---------------|---------|---------|---------|---------|---------|---------|--------|--------|
| DISPERBYK-199 | 15.00 % | 20.00 % | 20.00 % | 26.10 % | 20.00 % | 20.00 % | 7.00 % | 6.00 % |
|---------------|---------|---------|---------|---------|---------|---------|--------|--------|

Starting point formulation – Pigment concentrates for water-based systems with DISPERBYK-199

| Position | Component | Supplier | Function | Pigment | | | | | | | | |
|--------------|------------------|--------------|------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|----------------------|----------------------|--|
| | | | | Bayferrox 120 M | Bayferrox 130 M | Bayferrox 140 M | Bayferrox 160 M | Bayferrox 180 M | Permanent Red FGR | Permanent Red FGR 70 | Hostaperm Scarlet GO | |
| Supplier | | | | Lanxess | Lanxess | Lanxess | Lanxess | Lanxess | Sudarshan | Sudarshan | Sudarshan | |
| | | | | PR 101 | PR 112 | PR 112 | PR 168 | |
| 1 | Water | | Solvent | 23.00 | 20.00 | 20.00 | 18.80 | 18.60 | 39.90 | 39.90 | 34.80 | |
| 2 | Preservative | | Preservative | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | |
| 3 | BYK-1640 | BYK | Defoamer | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | |
| 4 | DISPERBYK-199 | BYK | Wetting and dispersing | 8.20 | 8.20 | 8.20 | 8.20 | 8.20 | 17.00 | 17.00 | 17.50 | |
| 5 | OPTIGEL-WX | BYK | Anti-settling | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | - | - | - | |
| 6 | ASP 170 | BASF | Filler | - | - | - | - | - | - | - | 10.00 | |
| 7 | Blanc Fixe micro | Venator | Filler | - | - | - | - | - | - | - | 10.00 | |
| 8 | Pigment | See headline | Color | 65.00 | 65.00 | 65.00 | 65.00 | 65.00 | 40.00 | 40.00 | 20.00 | |
| 9 | BYK-1640 | BYK | Defoamer | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | |
| 10 | Water | | Solvent | 2.60 | 5.60 | 5.60 | 6.80 | 7.00 | 2.40 | 2.40 | 7.00 | |
| Total | | | | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | |

Instructions

Premix position 1–5, add pigment/filler and disperse well (dissolver or beads are recommended), add position 9–10 while stirring.

Characteristic data

Additive dosage (solids on pigment)

| | | | | | | | | |
|---------------|-------|-------|-------|-------|-------|--------|--------|--------|
| DISPERBYK-199 | 5.00% | 5.00% | 5.00% | 5.00% | 5.00% | 17.00% | 17.00% | 35.00% |
|---------------|-------|-------|-------|-------|-------|--------|--------|--------|

Starting point formulation – Pigment concentrates for water-based systems with DISPERBYK-199

| | | | | Pigment | | Supplier | | | | | |
|--------------|------------------|--------------|------------------------|-----------------------|------------------|-----------------------------|------------------------------|--------------------|-----------------------|-----------------------|------------------------|
| | | | | Irgazin Red L 3670 HD | Hostaperm Pink E | Hostaperm Violet RL special | Ultramarin Blue Nubicoat HWR | Hostaperm Blue A4R | Sunfast Blue 249-1284 | Hostaperm Blue B2G 03 | Heliogen Blue L 7101 F |
| | | | | Sun Chemical | Sudarshan | Sudarshan | Ferro | Sudarshan | Sun Chemical | Sudarshan | Sun Chemical |
| Position | Component | Supplier | Function | PR 254 | PR 122 | PV 23 | PB 29 | PB 15:1 | PB 15:3 | PB 15:3 | PB 15:4 |
| 1 | Water | | Solvent | 20.00 | 36.80 | 18.00 | 23.00 | 21.00 | 40.00 | 35.00 | 22.00 |
| 2 | Preservative | | Preservative | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| 3 | BYK-1640 | BYK | Defoamer | 0.40 | 0.40 | 0.40 | 0.30 | 0.40 | 0.40 | 0.40 | 0.40 |
| 4 | DISPERBYK-199 | BYK | Wetting and dispersing | 20.00 | 22.50 | 22.50 | 13.80 | 26.30 | 15.00 | 15.00 | 26.30 |
| 5 | OPTIGEL-WX | BYK | Anti-settling | 0.30 | - | 0.30 | 0.40 | 0.40 | 0.30 | 0.30 | 0.20 |
| 6 | ASP 170 | BASF | Filler | - | - | - | - | - | - | - | - |
| 7 | Blanc Fixe micro | Venator | Filler | 10.00 | 10.00 | 10.00 | - | 10.00 | - | - | 10.00 |
| 8 | Pigment | See headline | Color | 40.00 | 30.00 | 30.00 | 55.00 | 35.00 | 30.00 | 30.00 | 35.00 |
| 9 | BYK-1640 | BYK | Defoamer | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 |
| 10 | Water | | Solvent | 9.00 | - | 18.50 | 7.20 | 6.60 | 14.00 | 19.00 | 5.80 |
| Total | | | | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |

Instructions

Premix position 1–5, add pigment/filler and disperse well (dissolver or beads are recommended), add position 9–10 while stirring.

Characteristic data

Additive dosage (solids on pigment)

| | PR 254 | PR 122 | PV 23 | PB 29 | PB 15:1 | PB 15:3 | PB 15:3 | PB 15:4 |
|---------------|---------|---------|---------|---------|---------|---------|---------|---------|
| DISPERBYK-199 | 20.00 % | 30.00 % | 30.00 % | 10.00 % | 30.10 % | 20.00 % | 20.00 % | 30.10 % |

Starting point formulation – Pigment concentrates for water-based systems with DISPERBYK-199

| Position | Component | Supplier | Function | PBk 7 |
|--------------|------------------|-----------------|---------------------------------|---------------|
| | | Pigment | Special Black 100 | |
| | | Supplier | Orion Engineered Carbons | |
| 1 | Water | | Solvent | 20.00 |
| 2 | Preservative | | Preservative | 0.10 |
| 3 | BYK-1640 | BYK | Defoamer | 0.40 |
| 4 | DISPERBYK-199 | BYK | Wetting and dispersing | 21.90 |
| 5 | OPTIGEL-WX | BYK | Anti-settling | 0.50 |
| 6 | ASP 170 | BASF | Filler | 8.00 |
| 7 | Blanc Fixe micro | Venator | Filler | 15.00 |
| 8 | Pigment | See headline | Color | 20.00 |
| 9 | BYK-1640 | BYK | Defoamer | 0.20 |
| 10 | Water | | Solvent | 13.90 |
| Total | | | | 100.00 |

Instructions

Premix position 1–5, add pigment/filler and disperse well (dissolver or beads are recommended), add position 9–10 while stirring.

Characteristic data

Additive dosage (solids on pigment)

DISPERBYK-199 43.80 %



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