

PanSPERSE® 900

Zero VOC* Aqueous Pigment Dispersing Additive

PanSPERSE 900 is an environmentally friendly aqueous dispersing agent effective with most organic and inorganic pigments. PanSPERSE 900 is solvent free and contains no alkylphenolethoxylates. Colorants made with PanSPERSE 900 are compatible with most waterborne coatings and inks.

Suggested Applications

PanSPERSE 900 is intended for use in making highly concentrated pigment dispersions for coloring conventional, low and zero VOC aqueous coatings and inks. Dispersions made with PanSPERSE 900 have exceptionally wide compatibility and can be used in both ambient cured and baking finishes. PanSPERSE 900 can also be used to correct problems of floating and flocculation in finished coatings and inks. PanSPERSE 900 has little or no effect on exterior durability. It can be used in exterior architectural paints, high performance maintenance coatings, transportation finishes, and other applications subject to extreme weathering.

Usage Levels

In the manufacture of concentrated pigment dispersions, PanSPERSE 900 should initially be evaluated at a starting point of approximately 8-10% by weight on total formula. The level can be adjusted as needed for optimum pigment loading and viscosity. In most cases, no other surface active material, additive or stabilizing agent will be needed. Post addition of 1-2% by weight is often adequate to significantly reduce or eliminate floating, flocculation or similar defects resulting from minor incompatibilities within the coating.

Typical Values

| COMPOSITION % BY WEIGHT | | COMPOSITION % BY VOLUME | | DENSITY | | VOC | |
|-------------------------|-------|-------------------------|-------|---------|---------|--------|------|
| Surfactant Solids | Water | Surfactant Solids | Water | lb/gal | Sp. Gr. | lb/gal | Gr/L |
| 75.5 | 24.5 | 73.3 | 26.9 | 9.11 | 1.09 | <0.05 | <5 |

*VOC is below that level which can be determined accurately by EPA Test Method 24.

Suggested Starting Formulas

| Phthalo Blue, C.I. Pigment Blue 15:2 | |
|--|-------|
| Pigment | 35.0 |
| PanSPERSE 900 | 8.5 |
| Water | 33.0 |
| Ammonium Hydroxide | 0.5 |
| <i>Mill in Small media mill to 7+ Hegman</i> | |
| Water | 23.0 |
| | 100.0 |

| Naphthol Red, Pigment C.I. Red 170 | |
|--|-------|
| Pigment | 30.0 |
| PanSPERSE 900 | 9.0 |
| Water | 44.5 |
| Ammonium Hydroxide | 0.5 |
| <i>Mill in Small media mill to 7+ Hegman</i> | |
| Water | 16.0 |
| | 100.0 |

| Yellow Oxide, C.I. Pigment Yellow 42 | |
|--|-------|
| Pigment | 59.4 |
| PanSPERSE 900 | 11.0 |
| Water | 20.8 |
| Ammonium Hydroxide | 0.5 |
| <i>Mill in Small media mill to 7+ Hegman</i> | |
| Water | 8.3 |
| | 100.0 |

| Tinting Black, C.I. Pigment Black 7 | |
|--|-------|
| Pigment | 35.0 |
| PanSPERSE 900 | 10.3 |
| Water | 33.0 |
| Ammonium Hydroxide | 0.5 |
| <i>Mill in Small media mill to 7+ Hegman</i> | |
| Water | 21.2 |
| | 100.0 |

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