

+ Chroma-Chem® Tint-Ayd® ES

Pigment Dispersions for Epoxy Coatings

Tint-Ayd® ES colorants are very high solids epoxy colorants formulated for tinting high solids and conventional epoxy coatings. These products use an epoxy resin with broad compatibility that produces a color system designed to provide excellent color performance in tinting or full pigmentation in most epoxy systems.

► Key Benefits

Tint-Ayd® ES colorants are stable, pourable solvent-free concentrates recommended for use in epoxy industrial coatings. They have excellent compatibility with a wide variety of epoxy coatings for floor and general industrial applications. The colorants have a rheological profile suitable for in-plant tinting applications.

These colorants are based on an epoxy resin. The dispersing resin was chosen because of its broad compatibility with a variety of coatings chemistries. The colorants also contain diluents and high molecular weight additives to lower viscosity and provide pigment stability. The colorants are thixotropic and are resistant to settling and syneresis.

► Properties

The resin in the Tint-Ayd® ES colorants is reactive. This resin will be reactive in the final film provided the base system is also reacted with typical epoxy curatives.

The Tint-Ayd® ES colorants do not contain any added VOC's. Because there is the potential for VOC's being incorporated through the supplied components, VOC levels are expected to be below 30 g/L.

► Applications

The Tint-Ayd® ES colorants are formulated for use in many industrial coatings including, but not limited to, coil, concrete protection, gel coats, general industrial finishes, industrial maintenance, and wood coatings.

► Compatibility

Tint-Ayd® ES colorants are recommended for use in solvent-based and solvent-free epoxy coatings. These colorants will also be compatible with diluents commonly used in epoxy coatings. However, the level of diluent can affect the performance of the colorants. Color control additives are recommended to be incorporated into the base prior to colorant addition.

► Shelf Life

Proper handling is essential to maintain good quality. It is recommended that the colorants be mixed prior to use. Containers should be tightly sealed when not in use. Repacking the colorant into a smaller container should be considered if the colorant level in the container is less than 20% of the original amount and will be stored for an extended period of time.

Shelf life on the Tint-Ayd® ES colorants is 2 years from the date of manufacture in unopened containers.



| Product Code | Description | CI Name | % Pigment | | % Non-Volatiles | | % Volatiles | | Specific Gravity | VOC* | Pigment Lightfastness | | Pigment Resistance | |
|--------------|-------------------------|-----------|-----------|--------|-----------------|--------|-------------|--------|------------------|------|-----------------------|------|--------------------|------|
| | | | X Wt. | X Vol. | X Wt. | X Vol. | X Wt. | X Vol. | | | g/L | Mass | Tint | Acid |
| ES 40-01 | White | White 6 | 55.9 | 25.8 | 43.9 | 73.9 | 0.2 | 0.4 | 1.83 | <30 | N | N | N | N |
| ES 40-15 | Quinacridone Violet | Violet 19 | 20.6 | 14.9 | 77.4 | 82.9 | 2.0 | 2.2 | 1.10 | <30 | S | S | N | N |
| ES 40-35 | Tinting Black | Black 7 | 20.6 | 11.3 | 79.0 | 88.3 | 0.4 | 0.4 | 1.14 | <30 | N | N | N | N |
| ES 40-47 | Organic Yellow Primrose | Yellow 97 | 26.4 | 22.0 | 71.0 | 75.0 | 2.6 | 3.0 | 1.12 | <30 | N | N | N | N |
| ES 40-48 | Disazo Medium Yellow | Yellow 83 | 26.3 | 20.3 | 71.1 | 76.7 | 2.6 | 3.0 | 1.15 | <30 | S | A | N | N |
| ES 40-60 | Red Oxide | Red 101 | 54.4 | 20.3 | 45.4 | 79.3 | 0.2 | 0.4 | 1.86 | <30 | N | N | N | N |
| ES 40-67 | Deep Organic Red | Red 170 | 20.0 | 14.9 | 77.8 | 82.6 | 2.2 | 2.5 | 1.08 | <30 | N* | S* | N | N |

*Expected values based on formulation

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| Lightfastness and Resistance Key | | | |
|----------------------------------|------------------------|----|----------------------------------|
| N | no bleed/discoloration | * | no Florida data, only Fadeometer |
| S | slight | ** | no data |
| A | appreciable | | |

Lightfastness and Resistance information is provide for guidance purposes only.
Source: NPIRI Raw Materials Data Handbook Volume 4 (@ 2000)



Where Art Meets Technology