



Plot No - 110, Chickloli M.I.D.C,
Next to Mahanagar Gas,
Forest Naka, Ambernath - W,
Dist - Thane (421 505)
State - Maharashtra, INDIA
Ph : +91-251-268 88 11
Email : rhinol@radiantchemicals.com
Web : www.radiantchemicals.com

RUOSPERSE - CD 1

(Pigment Dispersant for Non-Aqueous Systems)

Description :

RUOSPERSE - CD 1 is a general purpose polymeric pigment dispersant & wetting additive for non-aqueous systems. As a 50% active solution, RUOSPERSE - CD 1 promotes efficient pigment dispersion with improved gloss & color development.

Application :

RUOSPERSE - CD 1 allows the formulator to achieve high pigment loadings & fast pigment dispersion time in non-aqueous systems. RUOSPERSE - CD 1 will also improve color uniformity & development. The efficient dispersing action of RUOSPERSE - CD 1 provides high initial gloss & improved gloss retention. Applications include pigment dispersions in :

1. Short, Medium & long Alkyds
2. Polyesters
3. Urethanes
4. Epoxies
5. Acrylics

Highlights :

1. Higher solids loadings
2. Reduced dispersion time
3. Broad compatibility
4. Increased gloss
5. Improved gloss retention
6. Maximum color development
7. Improved resin compatibility

Physical Properties :

- | | | |
|-----------------------|---|---------------|
| 1. Appearance | : | Amber Liquid |
| 2. Specific Gravity | : | 0.96 gm / cc |
| 3. NVM (105°C / 1 hr) | : | Above 50% |
| 4. Viscosity | : | Above 100 cps |
| 5. pH | : | 2.0 to 5.0 |

Function :

The correct use of RUOSPERSE - CD 1 will vary widely with the surface area of the particle being dispersed & the wetting properties of the binder system. General guidelines for some pigments (based on pigment weight) are -

- | | | |
|------------------------------------|---|---------------|
| 1. Carbon Black | : | 15.0 to 22.0% |
| 2. Phthalocyanine Pigments | : | 10.0 to 15.0% |
| 3. Organic color pigments | : | 08.0 to 15.0% |
| 4. Iron oxide pigments | : | 02.0 to 05.0% |
| 5. Transparent iron oxide pigments | : | 05.0 to 08.0% |
| 6. Titanium Dioxide | : | 00.5 to 01.0% |
| 7. Extenders | : | 00.5 to 01.0% |

Formulating Considerations :

RUOSPERSE - CD 1 should be included in the pigment dispersion stage of system manufacture. Adding prior to the addition of the pigments will allow maximum dispersing efficiency.

Use Levels :

RUOSPERSE - CD 1 is normally used at levels ranging from 0.25 to 1.0% based on total formulation weight. The optimum level will depend on the specific formulation.