Procedure



How to Print on Acetate Using OrcoSperse™ Pigments

Basic information regarding the printing on acetate using OrcoSperse™ aqueous pigments is shown below. There are many parameters and variables involved with pigment printing. Pigment printing concerns itself with the following basic factors:

Pigments

OrcoSperse™ pigments are aqueous pigments nonionically or anionically dispersed. These may or may not be resin bonded.

Low-Crock

A resinous material, usually acrylic or styrene butadiene latex which, in some cases, is compounded with a melamine formaldehyde resin to improve cross-linking and thus improving washfastness.

Clear Concentrate

A synthetic polymer dispersed in an emulsion or colloid which swells and increases in viscosity when dispersed in water usually with high shear mixers like a Barenco or a Hill homogenizer.

Pigment Printing Procedure:

- 1. Prepare typical print paste with the following:
 - 1-8 parts **OrcoSperse**[™] pigment concentrate
 - 1.5-2.5 parts Orco Clear Conc SP-2™
 - 5-10 parts Orco Low-Crock T-550™
 - X parts Water 100 parts total
- 2. Charge tank as follows in order listed:
 - X parts Cold Water
 - <u>1.5-4.0 parts</u> Orco Clear Conc SP-2™ 100 parts total
- 3. Run a high-speed mixer 10-12 minutes until smooth.
- 4. Add 5-10 parts **Orco Low-Crock T-550**™.
- 5. Add desired amount of **OrcoSperse™** print paste prepared above and continue mixing for 4-8 minutes until dispersion is complete.
- 6. Check viscosity. If a higher viscosity is desired, add additional **Orco Clear Conc SP-2™** with mixing for 5-7 minutes.
- 7. Print material on either a flat-bed screen or rotary screen.
- 8. Cure at a minimum of 275-300°F(135-150°C) for 60-90 seconds.