Strodex™ PK-90 Phosphate Ester Surfactant
For Waterborne Architectural Coatings

Strodex PK-90 surfactant is the neutralized (potassium salt) form of a phosphate coester of aliphatic alcohols. It imparts improved gloss and color acceptance in waterborne latex paints. Depending on the formulation specifics, Strodex PK-90 surfactant can also function as a supplemental dispersant to assist in reduction of pigment flocculation. Strodex PK-90 surfactant does not contain any alkyl phenol ethoxylates (APEOs).

Strodex PK-90 surfactant is particularly beneficial at wetting pigments including TiO₂, iron oxides and common extenders. Spreading and uniform coverage of paint on difficult to wet surfaces are improved by the use of Strodex PK-90 surfactant.

Typical Properties\(^{(a)}\)

- **Chemical type**: Phosphate Ester (anionic)
- **Appearance**: Clear liquid
- **Active solids, weight %**: 89 ± 1%
- **Gardner Color**: 1 maximum
- **Viscosity\(^{(b)}\)**, as supplied (cps or mPa·s): 5,000 - 9,000
- **Density, g/mL**: 1.15
- **Density, lb/gal**: 12.1
- **pH, 10% aqueous solution**: 7.3 – 7.7
- **VOC content, weight %**: 3.0
- **Flash point\(^{(c)}\)**: > 200°F (93°C)

\(^{(a)}\)Values are typical properties and are not to be regarded as product specifications.

\(^{(b)}\)Brookfield RVT viscosity at 25°C (77°F), spindle #5 at 20 rpm.

\(^{(c)}\)Tag closed cup

**Product Benefits**

- Increases gloss
- Reduces hazing
- Enhances color properties
- Improved substrate wetting
- Excellent wetting & dispersion of pigments including iron oxides
- Improved freeze-thaw resistance
- Helps prevent crawling, cratering & pinholing
- Low water sensitivity
- Inhibition of flash & nail head rusting
- May improve open time & block resistance

**Recommended Use Levels**

In flat, semi-gloss and gloss paints, 2-4 pounds of Strodex PK-90 surfactant per 100 gallons (0.2-0.4%) of finished paint are recommended.

**APEO & Glycol Content**

Strodex PK-90 surfactant does not contain any alkyl phenol ethoxylates (APEOs). Glycols are not intentionally added or known to be present in Strodex PK-90 surfactant.
Chemical Inventories

All components of Strodex™ PK-90 surfactant are listed on the TSCA (USA), and the DSL (Canada) chemical inventories. This product is EINECS compliant.

Product Safety

Please read and understand the MSDS before using this product.