



NUMBER 4791-1 (Supersedes 4791)

Strodex™ FT-427 phosphate ester surfactant

For waterborne architectural coatings

Strodex FT-427 phosphate ester surfactant is a specialty surfactant based on a neutralized (potassium salt) ethoxylated phosphate ester. Strodex FT-427 phosphate ester surfactant can be used in applications typically requiring a mid HLB surfactant, imparting improved color acceptance, good wetting properties and reduces color float in waterborne latex paints. Strodex FT-427 phosphate ester surfactant also can impart superior freeze-thaw and heat stability to waterborne acrylic-based latex paints compared to other surfactants and phosphate esters.

Strodex FT-427 phosphate ester surfactant does not contain any alkyl phenol ethoxylates (APEOs).

Typical Properties^(a)

Chemical type.....	Phosphate Ester (anionic)
Appearance.....	Clear liquid
Active solids, weight %	89 ± 2%
Active solids, volume %	89 ± 2%
Water, weight %	11.0 ± 1%
Water, volume %	11.0 ± 1%
Gardner Color.....	3 maximum
Viscosity ^(b) , as supplied (cps or mPa·s).....	50 - 200
Cloud Point °F (°C) (neat).....	~40° (3°)
Density, g/mL	1.02
Density, lb/gal	8.5
pH, 10% aqueous solution	3.5 - 4.5
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).

^(c)Tag closed cup

Product Benefits

- Improved freeze-thaw resistance
- Improved color acceptance
- Improved heat stability
- Reduces color float
- Improved substrate wetting
- May improve open time

Recommended Use Levels

In flat, semi-gloss and gloss paints, 2-5 pounds of Strodex FT-427 phosphate ester surfactant per 100 gallons of finished paint (0.2-0.5%) are recommended.

Volatile Organic Compounds (VOCs)

Strodex FT-427 phosphate ester surfactant is formulated as solvent-free. As such, the VOC content of this product should be non-detectable using the standard U.S. EPA Reference Method 24.



APEO and Glycol Content

Strodex™ FT-427 phosphate ester surfactant does not contain any alkyl phenol ethoxylates (APEOs).

Chemical Inventories

All components of Strodex FT-427 phosphate ester surfactant are listed on TSCA and DSL chemical inventory (USA and Canada) as well as EINECS compliant (EU).

Handling Precautions

Under normal storage conditions (between 32 °F / 0 °C and 100 °F / 37 °C in closed packaging), Strodex FT-427 phosphate ester surfactant has good chemical stability and has a recommended shelf-life of two years. However, Strodex FT-427 phosphate ester surfactant can exhibit a low temperature cloud point, where formation of an opaque layer can occur with storage at temperatures less than 40-50°F / 3-10 °C. If stored at temperatures <40-50 °F, it is recommended that Strodex FT-427 phosphate ester surfactant be preheated to 60 °F / 15 °C or stirred/recirculated before use to ensure homogeneity. Review the Safety Data Sheet (SDS) for additional information.

Packaging

Strodex FT-427 phosphate ester surfactant is available in 5-gallon pails, 55-gallon drums and Intermediate bulk containers (IBCs). Samples are available in 4-oz. (100ml), 0.5-pint (250ml) and 1 qt. (1 liter) quantities.

Product Safety

Please read and understand the Safety Data Sheet (SDS) before using this product.