



# ReflectoSphere 1945SL75

## Retro-Reflective Microsphere Slurry

*Reflective Products That Save Lives*

### **Description**

ReflectoSphere 1945SL75 is a 75% by weight slurry of ReflectoSphere #1945 in Propylene Glycol. It also contains proprietary additives, surfactants and adhesion promoters. A convenient and economical means of incorporating ReflectoSpheres into water-thinned coatings and inks. Provides formulations which produce uniform levels of retro-reflectivity regardless of angle of combined light source and viewing. Enhances package stability. Normal shelf life of acrylic latex or alkali-soluble resin-based coatings and inks is 12 months.

### **Characteristics**

<b>Appearance:</b>	Easy pouring grey slurry. Must be well mixed before each use.
<b>Viscosity:</b>	Not controlled
<b>Specific Gravity:</b>	2.35 +or- 0.10
<b>Wt/USG:</b>	19.6 +or- 0.5 lbs.
<b>Weight Solids:</b>	75.0 +or- 1.0%
<b>Volume Solids:</b>	43.0 +or- 1.0 %
<b>ReflectoSphere Content:</b>	75% by weight (45 micron diameter)
<b>Flash Point:</b>	Over 200°F
<b>VOC Content:</b>	Less than 1% by weight

### **Formulation Methods**

ReflectoSphere 1945SL75 Slurry must be well mixed before each use. Some settling may occur.

Normal formulation practices should be used to develop inks or coatings with crosslinkable or thermoplastic water-thinned polymers. First, make the clear base, then neutralize with AMP-95, triethanolamine, or triethylamine to achieve a pH of 6.0 to 6.5. Do not use ammonium or sodium hydroxide. After the base is standardized, add the slurry with good agitation. Restandardize the pH.

Always check original formulation for liquid stability and reflectivity by observation and repeat application over several weeks storage at room temperature. If reflectivity drops, gelling is noted, or if gassing occurs, call your ReflectoSphere representative for technical assistance.

Amount of 1945SL75 Slurry to be used, depends upon substrate and resin solids. In a typical textile screen printing ink with latex solids of 40 to 45% by weight, use sufficient slurry to give about 35% by weight of ReflectoSpheres in the finished ink. In inks for non-porous surfaces, use lower resin solids, typically 25 to 35% and a bead content of 45 to 50%.

**The information provided herein is believed to be accurate and reliable.  
Specifications are subject to revision without notice.**

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