

Surfynol® 500S Surfactant

Powdered Dynamic Wetting Agent



Description

Surfynol 500S surfactant is a highly effective powdered nonionic surfactant formulated to provide efficient substrate wetting, flow, leveling, and foam control. Surfynol 500S surfactant has a unique chemistry that allows for rapid wetting of solid particles, fast mixing and enhanced workability of cementitious systems.

Surfynol 500S surfactant can offer outstanding particle wetting to enable homogeneous dispersion of solid particles into the mixture for surfaces without spots, craters and few or no dry cracks. In the case of pigmented systems, this typically enables stronger, defect free color development. Additionally, Surfynol 500S surfactant may allow applicators to increase pumping speed, keep sprayers clean and spray nozzles lubricated, all of which can enhance productivity.

Surfynol 500S surfactant is universally applicable for use in both neutral and alkaline systems. It can be used with all other powder components or in association with cement, emulsion and powder polymers, hydrocolloids, fibers and water repellents.

Recommended Usage

Surfynol 500S surfactant can be blended with the other solid ingredients of the formulation in conventional powder mixers or post-added. Normal usage levels range between 0.1–1.0 wt.% based on dry blended formulation.

Advantages

- Fast wetting of solid particles (e.g., cement, fillers, fibers, and pigments)
- Reduced dispersing time
- Homogeneity upon mixing
- Enhanced flow and self-leveling
- Extended open time and workability
- Effective deaeration
- Improved adhesion
- Increased pumping speed and productivity
- Free-flowing powder with limited dust release
- Suitable for EMI CODE emission class EC 1 PLUS systems
- Contains no added silicones or alkylphenol ethoxylates

Typical Properties¹

Appearance	Free-flowing, white powder
Dust Classification	St-1
Apparent Density (21 °C)	approx. 410 g/L

¹ These are typical properties only and do not represent sales or manufacturing specifications.

Applications

- Cement based systems
 - Self-leveling underlayments / overlayments
 - Screeds
 - Repair and jointing mortars
 - Grouts
 - Tile adhesives
 - Renders and plasters
 - External thermal insulation
 - Oilfield cementing
- Others
 - Powder coatings
 - Redispersible powders
 - Agricultural chemicals
 - Inks and adhesives
 - Pigment premixes

Storage and Handling

Surfynol 500S surfactant is a non-perishable, non-hygroscopic product and is not sensitive to freezing. It should be stored under dry and clean conditions between -10 °C and 50 °C. High pressure on the packed material should be avoided to prevent lumping. Handling of Surfynol 500S surfactant is convenient in terms of flowability, dusting and ease of incorporation.

Shelf Life

24 Months from the date of manufacture.

Additional Product Information

Link to [MSDS Library](#)

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