SPHERILEX® DP-0117

DESCRIPTION

- SPHERILEX* DP-0117 is a precipitated amorphous (crystalline-free) silica with uniquely spherical particle shape and very narrow particle size distribution
- SPHERILEX* products are available with different particle sizes, but all
 grades are based on a new patented synthesis process that directly controls
 particle morphology during the precipitation step. As a result, this new
 range of silica products provides a unique balance of performance benefits.
- SPHERILEX* DP-0117 represents the largest particle size within the SPHERILEX* family of silicas. It provides a significant matting effect in all coatings and is particularly useful in powder coatings where it provides both matting and improvements to the coating's durability. SPHERILEX* DP-0117 also provides excellent wet scrub, burnish, scuff, stain, and mar resistance in flat (matte) architectural coatings and thicker film liquid coatings containing higher loadings of other fillers.

KEY BENEFITS

- · effective matting agent for powder coatings
- increased impact resistance
- excellent washability and scrub resistance
- excellent mar and burnish resistance
- low viscosity at high loading levels
- very low water/solvent demand in the grind process
- very low binder demand

EFFECT	
Sheen Control	
Mar and burnish resistance	
Washability and scrub resistance	<u> </u>
Gloss reduction	
Smooth Surface Profile	

SUITABILITY		
solventborne	direct grind	
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waterborne		
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TYPICAL APPLICATIONS

- Powder coatings
- Architectural paints

delivery form	free-flowing powder
DOA absorption	45 ml/100g
loss on drying	<7 %
particle size, d ₅₀	18 μm
particle size, d ₉₅	<40 µm
pH value, 5% in water	7.5
sodium sulfate content	<1.0 %
specific gravity	2.0
specific surface area (BET)	<12 m²/g

RECOMMENDED ADDITION LEVEL

As supplied calculated on total formulation: 3 - 30 %

PROCESSING INSTRUCTIONS

It is recommended that this product be added, as supplied, to the grind.

HANDLING & STORAGE

When stored in an original unopened packaging, the product has a shelf life of 24 months from the date of manufacture. We recommend to store the product in closed containers under dry conditions and to protect the material from volatile substances.

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