

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****Gloss reduction****Smooth Surface Profile****SUITABILITY****solventborne****direct grind****waterborne****TYPICAL APPLICATIONS**

- Powder coatings
- Architectural paints

TECHNICAL DATA

delivery form	free-flowing powder
DOA absorption	45 ml/100g
loss on drying	<7 %
particle size, d₅₀	18 µm
particle size, d₉₅	<40 µm
pH value, 5% in water	7.5
sodium sulfate content	<1.0 %
specific gravity	2.0
specific surface area (BET)	<12 m ² /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.

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

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