SPHERILEX® DP-0111

DESCRIPTION

- SPHERILEX® DP-0111 is a precipitated amorphous (crystalline free) silica with unique 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-0111 has the smallest particle size within the SPHERILEX®
 family of products, making it ideal for thin film applications or systems where
 smaller particle sized pigments are preferred to promote surface smoothness and
 higher 85 degree gloss.

KEY BENEFITS

- · excellent mar and burnish resistance
- very good washability and scrub resistance
- high surface smoothness
- low viscosity at high loading levels
- very low binder demand
- very low water/solvent demand in the grind process

Mar and burnish resistance Washability and scrub resistance Gloss reduction Smooth Surface Profile

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TYPICAL APPLICATIONS

- Architectural paints
- Decorative coatings
- Floor coatings
- Wood coatings

TECHNICAL DATA

delivery form	free-flowing powder
DOA absorption	45 ml/100g
loss on drying	5 %
particle size, d ₅₀	5.5 μm
particle size, d ₉₅	14 μm
pH value, 5% in water	7.5
sodium sulfate content	<1.0 %
specific gravity	2.0 g/cm ³
specific surface area (N ₂)	6 m²/g

RECOMMENDED ADDITION LEVEL

As supplied calculated on pigment: 15 - 25 % As supplied calculated on total formulation: 3 - 10 wt-%

PROCESSING INSTRUCTIONS

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

HANDLING & STORAGE

24 months when stored in original unopened package in clean, dry conditions. Evonik silica products are inert and extremely stable, chemically. SPHERILEX* silicas have very low surface area, however, precipitated silica can absorb moisture and volatile organic compounds from the surrounding atmosphere. Therefore, we recommend storage in original sealed packaging in a dry, cool place and removed from volatile organic substances. Even if a product is stored under these conditions, over periods of time the material may still pick up enough moisture to exceed the moisture content that is specified "as packaged" or at the time of packaging.

MSDS & REGULATORY INFORMATION



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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