

Specialty filler

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.

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

EFFECT

Mar and burnish resistance



Washability and scrub resistance



Gloss reduction



Smooth Surface Profile



SUITABILITY

direct grind



solventborne



waterborne



TYPICAL APPLICATIONS

- Architectural paints
- Can coatings
- Coil coatings
- Decorative coatings
- Floor coatings
- Wood coatings

TECHNICAL DATA

delivery form	free-flowing powder
DOA absorption	40 ml/100g
loss on drying	<7 %
particle size, d ₅₀	5.5 µm
particle size, d ₉₅	<20 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: 1 - 10 wt-%

PROCESSING INSTRUCTIONS

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

HANDLING & STORAGE

When stored in its original unopened packaging, the product has a shelf life of 24 months from the date of manufacture. Evonik precipitated silica products are extremely chemically stable. However, precipitated silicas, including this product, can absorb moisture and/or volatile organic compounds from the surrounding atmosphere. Therefore, we recommend storage in original sealed packaging and 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.

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Evonik Operations GmbH | Goldschmidtstraße 100, 45127 Essen, Germany | Telefon +49 201 173-2222 Telefax +49 201 173-1939 | www.coating-additives.com