

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 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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