

# New smaller sized SPHERILEX® silica for coatings

Increase the durability of your clear and pigmented coatings



The newest member of the SPHERILEX® product group SPHERILEX® DP-0110 ensures the gloss control for matte or satin finishes while improving the durability of a coating. It can be used in interior architectural coatings as well as in wood coatings.

## Key properties

- Very good combination partner with matting agents for low gloss applications
- Excellent burnish, scratch and mar resistance
- High surface smoothness
- Very low impact on the chemical resistance of the binder
- Very low binder demand
- Low viscosity at high loading levels

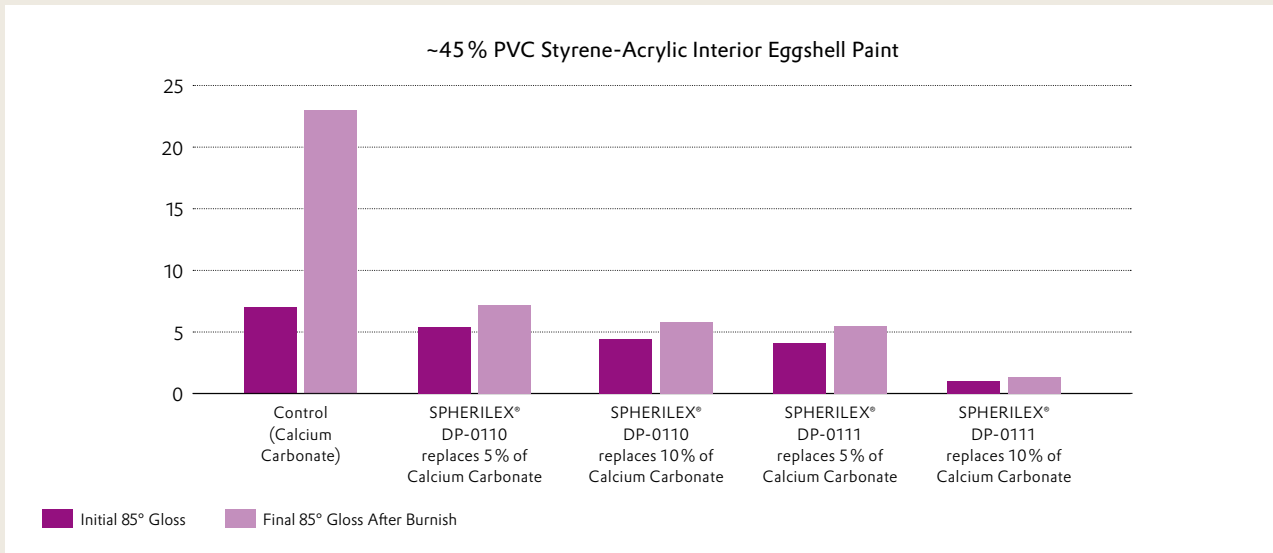
## SPHERILEX® DP-0110 Product Information

PROPERTIES	TYPICAL VALUES
Chemistry	Silicon Dioxide
Morphology	Spherical
Moisture (%)	≤ 7
5% pH	6.5 – 8.5
Sodium Sulfate (%)	≤ 1.0
BET SA (m <sup>2</sup> /g)	≤ 12
Oil absorption (cc/100g)	30 – 60
Median particle size (µm)	~4.4



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## Gloss evaluation in waterborne styrene-acrylic paints



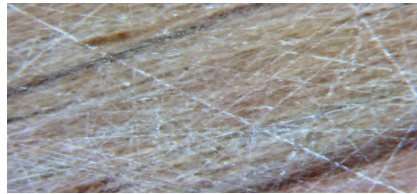
## Matte wood coatings with high durability

**Test System:** 1K Waterborne self-crosslinking PU emulsion-based parquet flooring formulation multi-layer coating (200 g/m<sup>2</sup>) applied to oak parquet with mohair roller, drying 7 days at room temperature with intermediate sanding between coats.

### Matting agent protected with SPHERILEX® DP-0110



### Matting agent combined with micronized PE wax (8 µm)



#### Scratch resistance

**Test Setup:** Mini-Martindale 100 cycles Scotch Brite CP (cut/polish) (Aluminiumoxide) 6N, visual evaluation and light microscopy

#### Black Heel Mark resistance

**Test Setup:** The rubber block (S4 Hardness) is forced to move from a specific height with a constant speed over the conditioned surface. The resulting black marks are evaluated visually

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