

Spherical epoxy silicne resin powder

Sinnosil[®] OE-3303



Product introduction

Sinnosil E-3303 is a crosslinked epoxy-functional silicone elastomer microsphere, designed to replace Dow 23N product. It appears as a white powdery industrial additive, with a microscopic three-dimensional network crosslinked spherical structure. Compared with other microspheres, it provides key properties such as mattness, water resistance, velvety handfeel, scratch resistance, and ultra-high wear resistance cycles. Sinnosil E-3303 has a particle size of 3µm, and other specifications from 1µm to 30µm can also be produced.

Technical Specifications

Average Particle Size Dv50 (µm)	3.0±0.5
Whiteness	≥85
Refractive Index	1.4
Moisture Content (%)	≤1.0
Epoxy Equivalent Weight	5000
Abrasion Resistance Cycles	> 15000

Application Guidelines

Coatings and Inks: Provides scratch resistance, wear resistance, water resistance, velvety handfeel, and matt effect.

Leather: Using an aqueous emulsion with about 50% solid content, coated on the substrate surface, provides scratch resistance, wear resistance, water resistance, velvety handfeel, and matt effect.

Fibers: Using an aqueous emulsion with about 50% solid content, coated on the substrate surface, provides scratch resistance, wear resistance, water resistance, velvety handfeel, and matt effect.

Handfeel Agents: Using an aqueous emulsion with about 50% solid content, coated on the substrate surface, provides scratch resistance, wear resistance, water resistance, velvety handfeel, and matt effect.

Application guidelines

When the powder is used in coatings and inks, do not grind it, as it will reduce the wear resistance cycles. It is recommended to make a slurry before adding.

Our company provides not only powder products but also aqueous dispersions, directly helping customers solve the problem of difficult dispersion.

For the aqueous emulsion with about 50% solid content, customers can dilute it as appropriate before coating it on the substrate surface.

Packaging & Storage

Packaging: 20 kg/paper barrel.

Storage: Store in a dry and ventilated place.

Company Information

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The information provided in this Product Bulletin is believed to be accurate and reflective of the product's typical characteristics and potential applications. However, any usage suggestions provided are solely for reference and should not be construed as authorization to violate any domestic or international patents. It is the responsibility of user to conduct comprehensive testing under actual application conditions to verify the product's performance, compatibility, safety, and handling requirements.