

SUNCOLOR CORPORATION

ADDITIVES FOR COATINGS, INKS, ADHESIVES & THERMOPLASTICS

SUNSPACERS™ 08.X

DESCRIPTION

SUNSPACERS 08.X are finely divided, optically clear, solid fused amorphous silica micronized powders specially engineered for paints, liquid and powder coatings, inks, adhesives, thermoplastics, and composites. These micronized powders increase corrosion resistance, reduce shrinkage, improve adhesion and enhance surface qualities including abrasion, mar and scratch resistance.

The dielectric properties and very high electrical receptivity of these materials over a wide range of temperatures, together with their low thermal conductivity, allow their use as an electrical and thermal insulating material in a range of environments. SUNSPACERS 08.X are chemically stable in a vast range of resins and pH.

LIGHT TRANSMISSION

SUNSPACERS 08.X transmit and scatter more than 85% of UV light having a wavelength of 200 nanometers and transmit and scatter more than 95% of UV light having a wavelength of greater than 300 nanometers. These micronized powders allow pigmented and/or thick, clear coatings to be readily cured with ultraviolet radiation.

SIZING & USE:

SUNSPACERS 08.X have a median particle size of approximately 8.0 microns, with 90% of particles passing 45.0 microns. Recommended dosages range from 3 to 50% by total weight of formulation. Due to their low surface area, the SUNSPACERS 08.X are easily dispersed.

TYPICAL PARTICLE SIZE ANALYSIS:		PHYSICAL & CHEMICAL PROPERTIES:	
<i>By MicroTrac/ Median Diameter Approx. 8.0 Microns</i>		Specific Gravity	2.2
(Microns) 45	(% Passing) 90	Index of Refraction	1.458(n _D)
22	73	Softening Temperature	>1000 ⁰ C
11	63	Strain Point	>600 ⁰ C
5.5	45	Coefficient of Thermal Expansion	55 x 10 ⁻⁷ / ⁰ C
2.75	23	DC Resistivity	1 x 10 ⁸
1.375	6	Hardness (Mohs) Scale	> 7.0
10% Finer	1.73	BET Surface Area (sq.m/g)	1.8
50% Finer	8.38	Ph	5.5-6.5
90% Finer	45.33	Structure/Amorphous SiO ₂	>99%
Shape: Solid Powder/Angular		Crushing Strength	>60,000 psi

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