



BX-ESR-405 Organic silicone resin

I. Product Description

Basic Features:

This product has good heat resistance, weather resistance, compatibility, color keeping and light keeping performance and reactivity. It can be used with acrylic, polyester, epoxy and other organic resins to improve the performance of heat resistance, weather resistance, chalking resistance, cracking resistance. This product is solid at room temperature, it can be used in heat and weather resistant powder coating by directly adding or compounding.

II. Technical Specifications

Item	Index	Test method
Appearance	Colorless to light yellow transparent solid	GB1721
Viscosity matter %	$\leq 3\%$	
Softening point(°C)	60-90	GB/T12007.6-1989
Solubility in toluene(1:1)	Clear and transparent	

Note: The above data are for reference only and are not guaranteed technical specifications.

III. Recommend applications:

1. Used in the powder coating industry, improving heat resistance and weather resistance. Has less impact on the recoating properties than other solid silicone resin;
2. Used in heat-resistant industrial coatings, usually it can be added directly by means of compounding. The effect of different adding ratios on temperature resistance is the more critical, and the generally recommended introduced amount should be $\geq 15\%$ (calculated by effective solid content). More balanced performance would further provide if introduced by means of polymerization grafting.
3. Used in weather-resistant polysiloxane coatings, combined with organic silicone resin, giving the coating weatherability and salt spray resistance. It meets the standards of HG/T 4755-2014 polysiloxane coatings



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IV.Packaging and Storage:

Generally be packed in 50kg plastic inner lining paper drums, sealed stored in a cool and dry environment under 25°C . The shelf life is generally 12 months from the date of production.

V.Instructions:

When this product is compounded used, it can be added directly or dissolved in solvent and then added to organic resin to prepare coating; when it is grafting modified used, the reaction process should be tested by glass test method to ensure entirely grafting. When used as powder coating, it can be carried out according to the general powder coating operation process.