

ChangFu® SP-E20

Epoxy functional silicone prepolymer



Description ChangFu® SP-E20 is an epoxy functional silane oligomer that can be widely used as an adhesion promoter in polysulfides, polyurethanes, epoxy resins and acrylic caulks, sealants, adhesives, and coatings. Its epoxy functional group and silicon hydroxyl functional group contribute to adhesion promotion and crosslinking of waterborne or solvent-based coatings, as well as the dispersion of metallic pigments in aqueous systems. Compared with conventional epoxy silanes, it can significantly reduce VOCs emissions when hydrolyzed.

Features & Benefits

- Contains a reactive epoxy group.
- Has high temperature resistance, weather resistance, and low VOCs.
- Especially suitable for aqueous systems.
- Able to provide better durability in solvent-based systems.
- Better surface modifier and adhesion promoter than conventional epoxy silanes.

Applications

- Used in water-based acrylic emulsion, water-based wood paint, water-based primer, water-based metallic paint, water-based ink, and other water-based systems.
- Used to enhance the adhesion of polymers such as waterborne epoxy resin, waterborne acrylic, and waterborne polyurethane to inorganic substrates such as metal, glass, ceramics, and concrete.
- Used to improve the corrosion resistance of paints and coatings.

Typical Properties

Description	Epoxy functional silicone prepolymer
Product No.	ChangFu® SP-E20
Appearance	Colorless to light yellow clear liquid
Active Ingredient Content	100%
Viscosity	40-100cst
Density	1.150-1.170
Refractive Index	1.4500-1.4600

Package Offered in 25L pails and 200L drums.
Custom packaging is available.

Storage Stored in a cool, well-ventilated place.
Keep container tightly closed.

Transportation See the corresponding Safety Data Sheet.