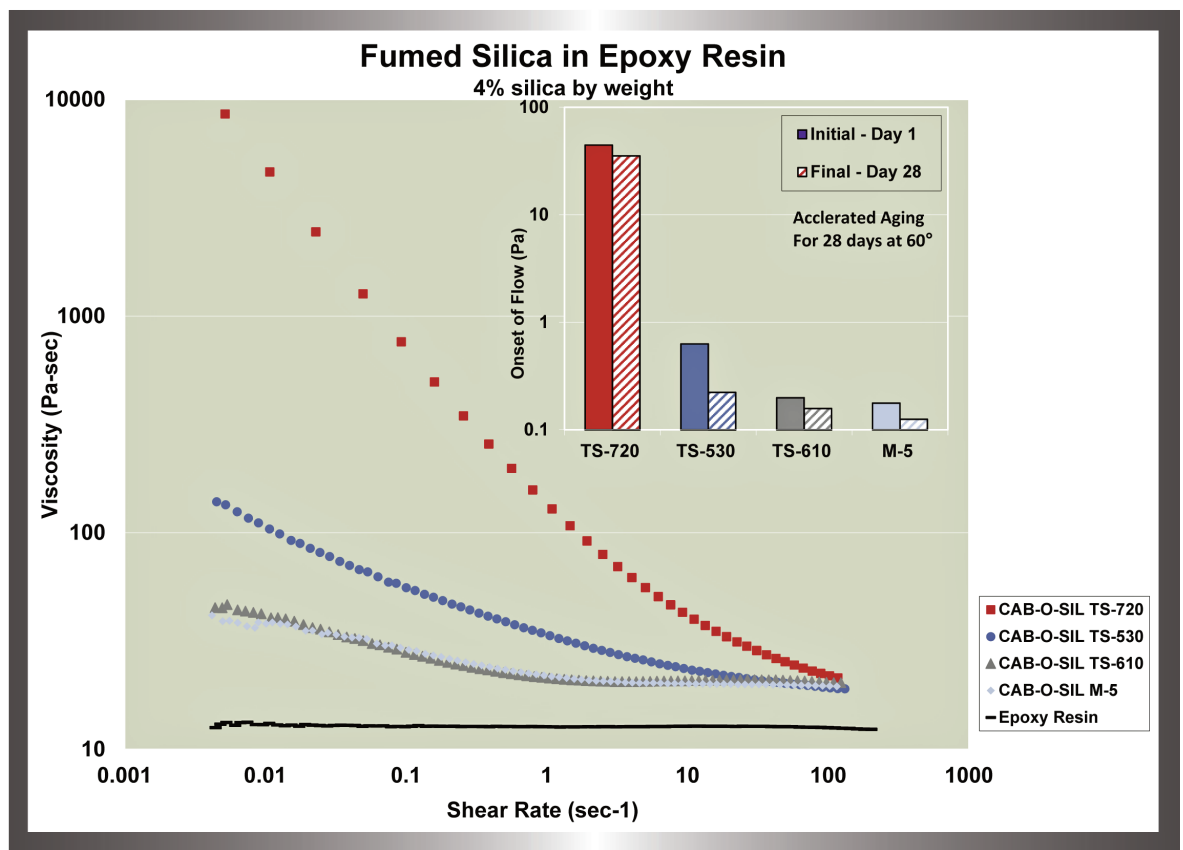


## CAB-O-SIL® TS-720

CAB-O-SIL TS-720 is a medium surface area fumed silica which has been surface treated with polydimethylsiloxane PDMS. This surface treatment results in a hydrophobic silica with very different performance than untreated silica.



### CAB-O-SIL® TS-720 Treated Silica

In comparison to an untreated silica such as CAB-O-SIL M-5 and other treated silicas such as CAB-O-SIL TS-610 and CAB-O-SIL TS-530, CAB-O-SIL TS-720 provides very different performance in polar systems. The chart below demonstrates the efficient thickening and shear-thinning rheology provided by CAB-O-SIL TS-720 in an epoxy resin. The sag resistance as measured by onset of flow of CAB-O-SIL TS-720 is far superior to that of the untreated silica CAB-O-SIL M-5 and even the other treated silicas CAB-O-SIL TS-530 and CAB-O-SIL TS-610. After aging at 60°C for 28 days, the epoxy resin containing CAB-O-SIL TS-720 maintained sag resistance (onset of flow) unlike the other silicas.



## Major Applications and Performance Features:

### Typical Applications

CAB-O-SIL TS-720 is used for rheology control in a wide variety of adhesives, composite and coatings applications:

#### Epoxy Adhesives and Coatings:

In epoxy adhesives and coatings, CAB-O-SIL TS-720 provides good thickening efficiency, sag resistance (or film build) and anti-settling of pigments and fillers. For applications requiring storage stability, TS-720 is recommended.

#### Polyurethane Adhesives and Coatings:

In polyurethane adhesives and coatings, CAB-O-SIL TS-720 provides the same efficient, stable rheology control as in epoxy systems. In addition, the hydrophobic surface of CAB-O-SIL TS-720 introduces very little moisture into these systems preventing premature cross-linking of moisture cured systems.

#### Vinyl Ester Laminating Resins and Gel Coats:

While untreated silicas are effective thickeners of unsaturated polyester resins, CAB-O-SIL TS-720 is a more efficient, stable rheology control additive for higher polarity systems like vinyl ester laminating resins and gel coats.

### Performance Features

CAB-O-SIL TS-720 provides the following performance advantages in medium to high polarity systems

- Thickening efficiency
- Sag resistance or high film build
- Anti-settling of pigments and fillers
- Shear-thinning rheological behavior
- Stable rheological performance over time

### Packaging Options:

CAB-O-SIL TS-720 is packaged in multi-wall Kraft paper bags and flexible intermediate bulk containers (FIBC's). It is available in poly-shrouded units containing 18 x 10 lb. paper bags (net weight 180 lbs.) and 18 x 10 kg paper bags (net weight 180 kg) as well as in 150 kg FIBCs.

### Material Safety Data Sheet:

A Material Safety Data Sheet for this product may be obtained by contacting the Cabot Corporation office in your region or can be downloaded from our website:

[www.cabot-corp.com](http://www.cabot-corp.com)

### Product Sales Specifications:

Sales specifications for this product may be obtained by contacting a sales or technical service manager at the Cabot Corporation office in your region.

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