Short Stuff[®]HDPE An alternative to Fumed Silica for Rheology In Epoxy & Silicone Resin Systems

September 2021

Fumed Silica Replacement

Fumed silica brings nuisance dust issues

Short Stuff[®] is much easier to handle, and a shipment contains significantly more product.

Cost

 Short Stuff[®] is price competitive vs fumed silica, and may provide equal rheology at up to 50% less by weight in Epoxy systems.

Consistency

 Unlike fumed silicas, Short Stuff[®] works physically to impart rheology, so performance variation in different resins is reduced.

Predictable Rheology

- Short Stuff[®] provides consistent, reproducible rheology without the fluctuation often observed in Fumed Silica systems.

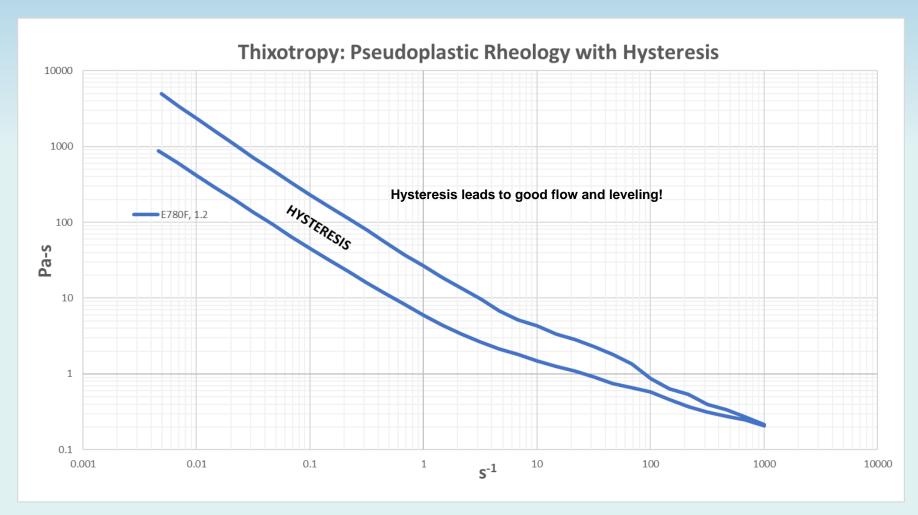
Product Packaging

Short Stuff[®] is available in 15 lb. paper bags.

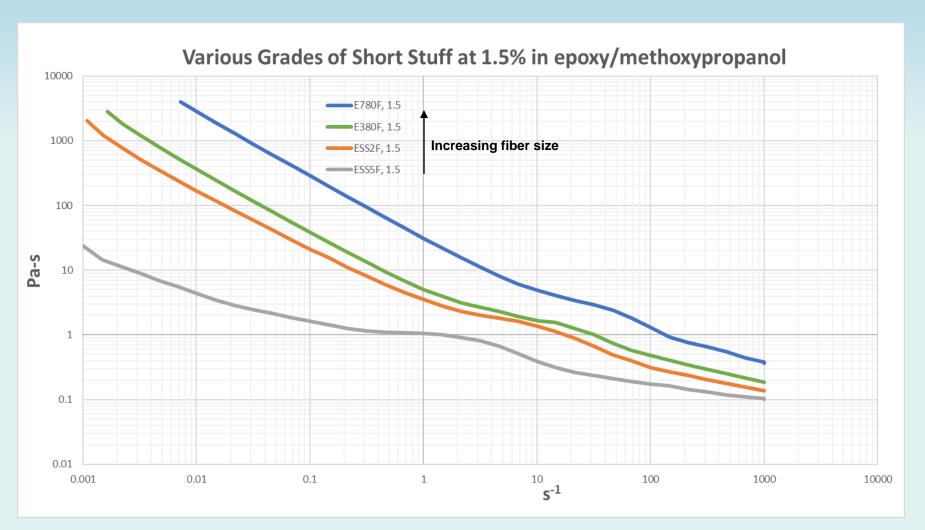
What Do I Need To Know?

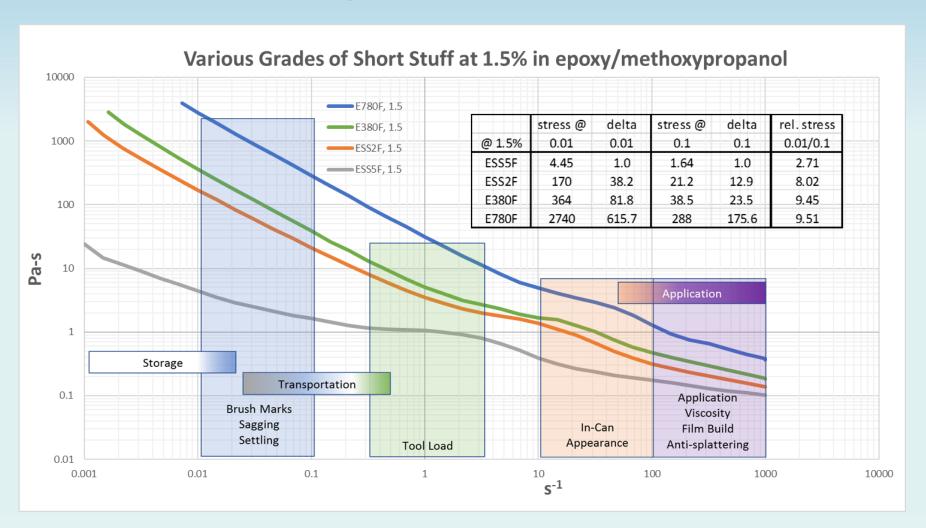
- Is the customer using Hydrophobic or Hydrophilic Fumed Silica?
 - Short Stuff[®] is available in both forms. Match what they have.
- What is the Gloss/Sheen target?
 - Short Stuff[®] typically reduces the gloss/sheen.
- Is Film Clarity a Requirement?
 - Short Stuff[®] remains opaque after dispersion.
- What is the Applied Film Thickness?
 - Short Stuff[®] is limited to wet film thickness of 3+ mils to prevent texture, or visible fiber in the dry film, unless texture is desired.
- What are the Drying Conditions? Air Dry, Forced, Oven?
 - Short Stuff[®] will melt at 135C/275F

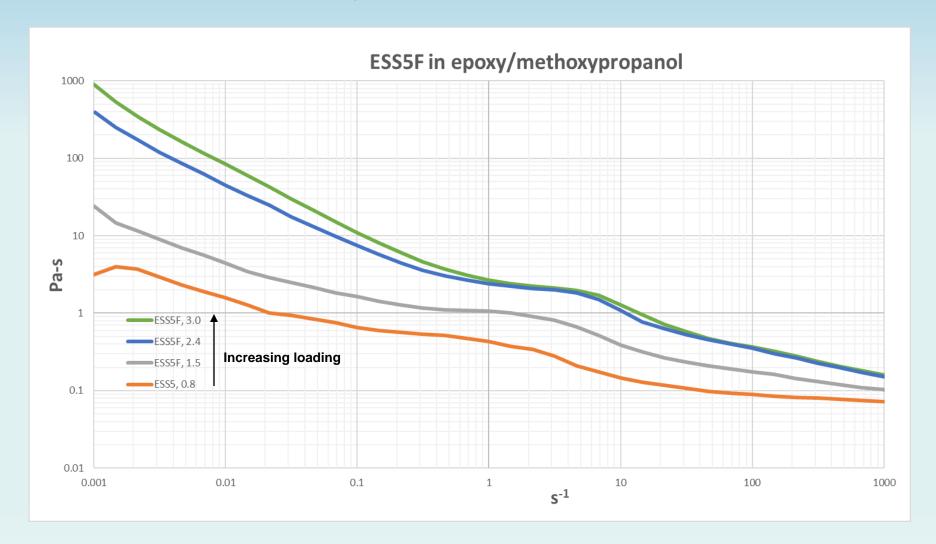
The Rheology of Short Stuff®



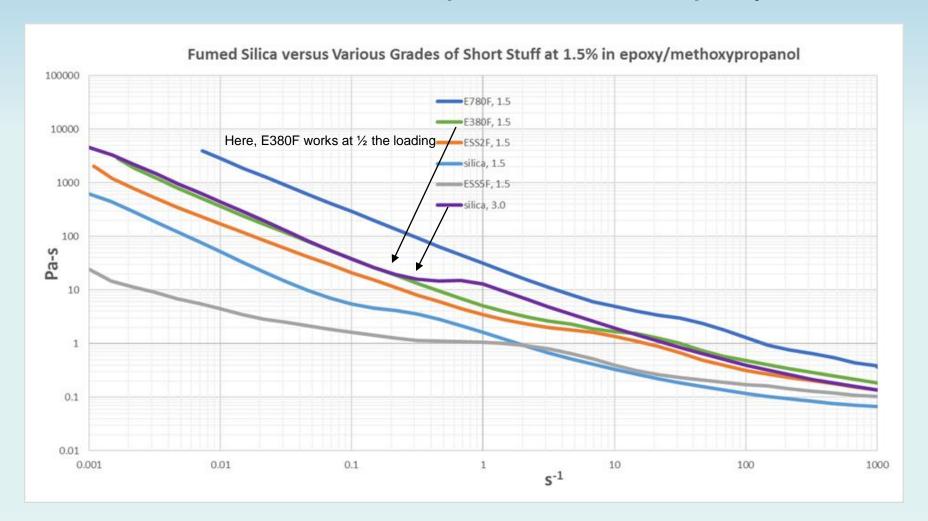
Short Stuff® in Epoxy





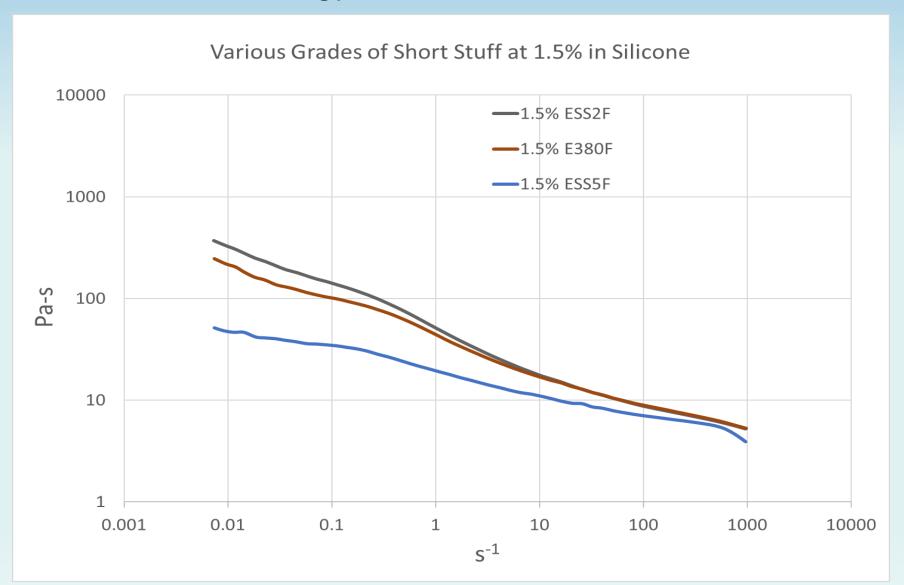


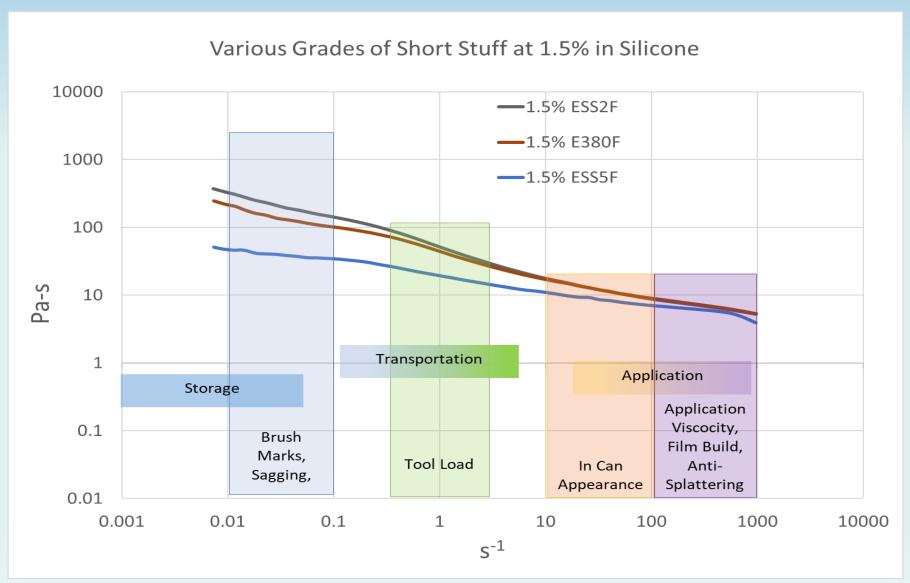
Fumed Silica Replacement in Epoxy



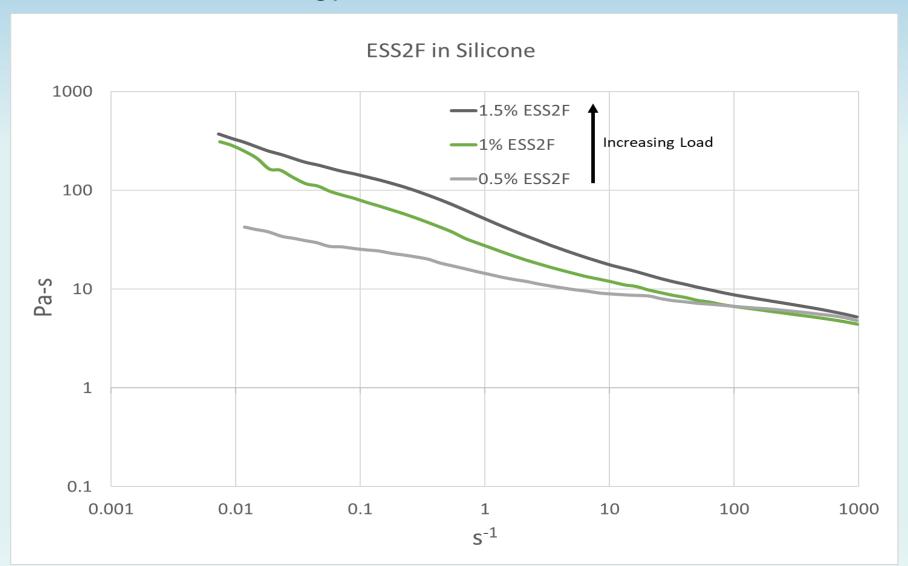
Short Stuff® in Silicone

The Rheology of Short Stuff[®]in Silicone

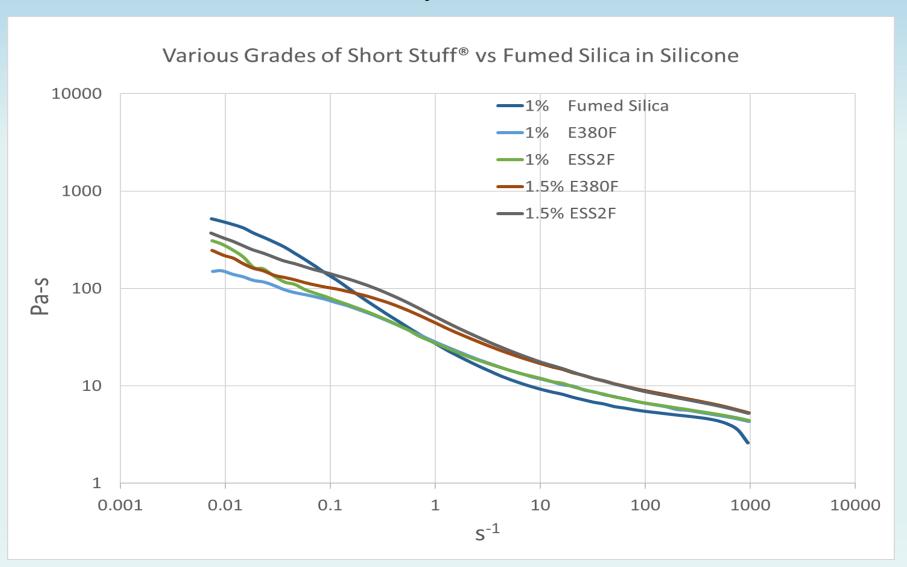




The Rheology of Short Stuff[®] in Silicone



Fumed Silica Replacement in Silicone



Summary

- Short Stuff® is an effective alternate to Fumed Silica in many Epoxy & Silicone based systems.
 - The larger the grade the more thickening.
 - As you increase fiber loading you get more thickening.
- Short Stuff® is an effective alternative to fumed silica in Epoxy based systems, in some cases at up to 50% less by weight. In Silicone systems equal weight may be required.
- Short Stuff® performance is not compromised or influenced by system ph.
- Short Stuff® offers a price competitive alternative to fumed silica, and potential logistic advantages.

Thank You!

www.minifibers.com