

## PYROGENIC SILICA | RHEOLOGY CONTROL

# HDK® H21

## Dedication to Exceptional Performance

The new HDK® H21 is an advanced hydrophobic pyrogenic silica for use in highly polar systems including epoxy, polyurethane, and vinyl ester resin systems. HDK® H21 is a polysiloxane treated grade with superior processing and performance properties, designed to provide the best dispersion, excellent rheology control, and prolonged storage stability. HDK® H21 complements our existing siloxane treated pyrogenic silicas – HDK® H18, which is optimized for high performance, and HDK® H17, which is designed for the best processing.

### Best-in-Class Rheology in Many Resin Systems

HDK® H21 has been developed to provide rheology control in highly polar systems such as epoxy resins, isocyanate prepolymers, vinyl ester resins, and polar solvent-based formulations. In addition to providing high viscosity at low shear rates in order to deliver the required sag resistance, HDK® H21 provides shear thinning viscosity control that delivers the best application properties.

### Shorter Processing Time

Proper dispersion of pyrogenic silica is essential for optimal rheological performance. Dispersion involves a wet-out phase and a grind phase and with hydrophobic pyrogenic silica, the wet-out phase can increase processing time. HDK® H21 has been optimized to improve wet-out and shorten processing time.

### Pyrogenic Silica with Personalized Service

Profit from decades of experience, our vertically integrated production, and hands-on technical expertise. We help you find the perfect solution for your specific requirements, be it by modifying a product or testing and analyzing different dosages of HDK® to your carrier medium. Should you have any questions or need assistance, our technical support team will be happy to advise you. Simply contact us at the address given below.

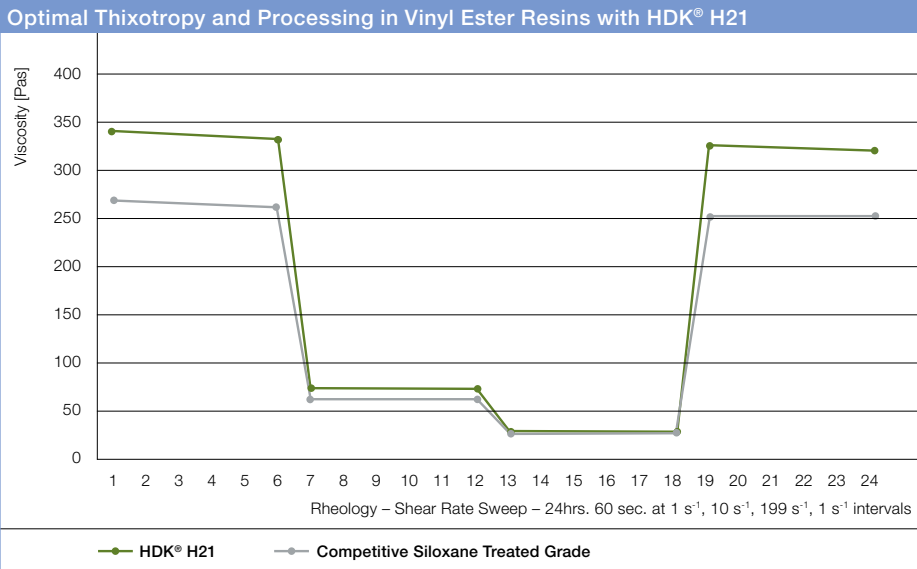
For more information visit: [www.wacker.com/hdk](http://www.wacker.com/hdk)



HDK® H21 provides optimal sag resistance in many resin systems.



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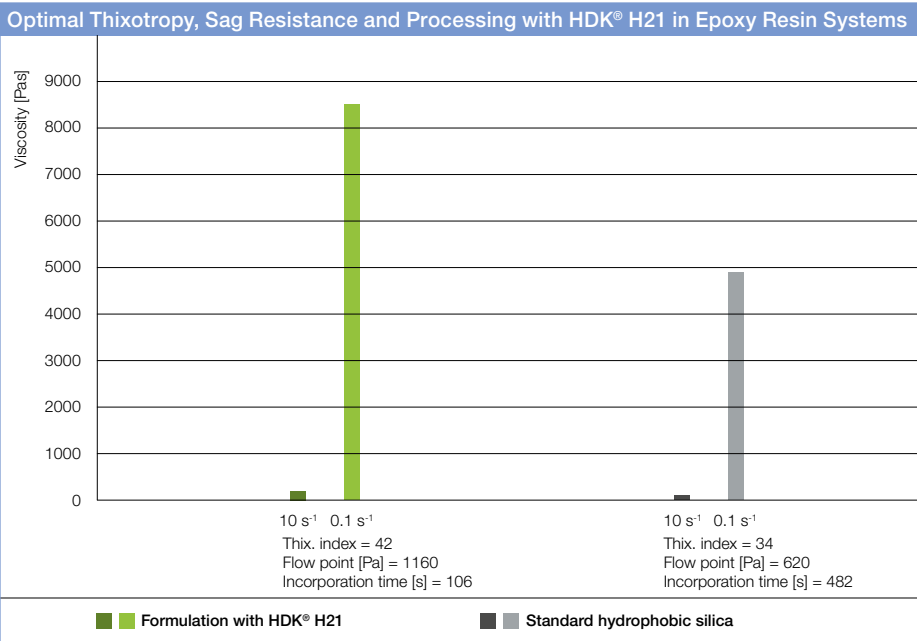
**Your Benefits:**

- Effective thixotropy of adhesive systems
- Highly efficient processing
- Unsurpassed thickening
- Outstanding stability
- Superior sag resistance

**Main Applications Include:**

- Lamination of wind turbine blades
- Bonding of automotive body composites
- Chemical anchors for joining heavy concrete structures

HDK® H21 exhibits superior rheological properties, a very high thixotropic effect, and is easy to incorporate.



HDK® H21 has an excellent rheological impact on epoxy resin systems and is easy to incorporate.

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The data presented in this information sheet are in accordance with the present state of our knowledge but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this information sheet should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The information provided by us does not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose.