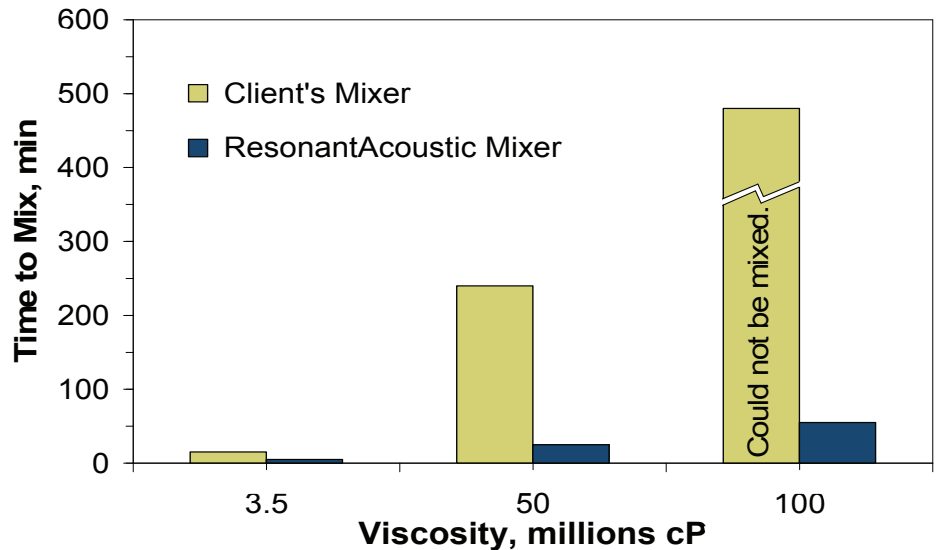


Background

Resodyn Acoustic Mixers has developed a novel mixer product line that uses low-frequency, high-intensity sound energy for mixing. The mixer technology, trademarked as ResonantAcoustic[®] Mixing (RAM), is applicable to a broad range of mixing classes that include liquid-gas, liquid-liquid, liquid-solid and powder-powder systems. Highlighted in this bulletin is a comparison of the speed of mixing between RAM and traditional mixers.

Rapid Mixing of Highly Solids-Loaded Viscous Resin

A blend of nano- and micron-sized powders was mixed into a viscous polymer resin at solids loadings up to 80% by weight (approximately 100 million cP) for a client. The materials were mixed until uniform. The figure on the right shows a comparison between the client's mixer and the ResonantAcoustic[®] mixer. For a material with a viscosity of 50 million cP the client's mixer took eight times longer than the ResonantAcoustic[®] mixer and the 100 million cP material that the client could not mix was mixed in about an hour by the ResonantAcoustic[®] mixer.

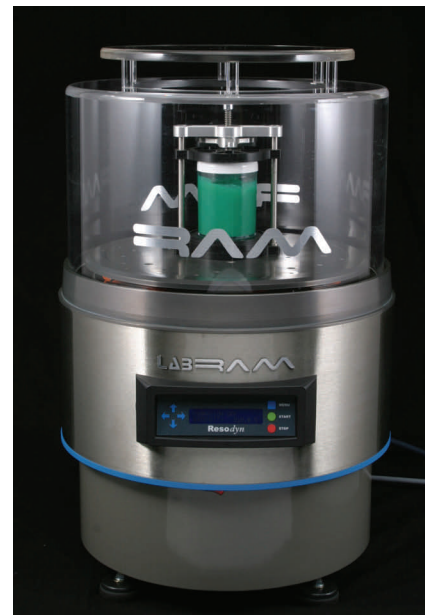


ResonantAcoustic[®] Mixer Benefits

- Easy cleaning
- Blends dissimilar powders
- Fast mixing times
- Can mix in the shipping container
- Blends cohesive powders
- Breaks loose agglomerations
- Can mix hazardous materials
- Can combine processing steps such as coating and mixing

Contact

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