

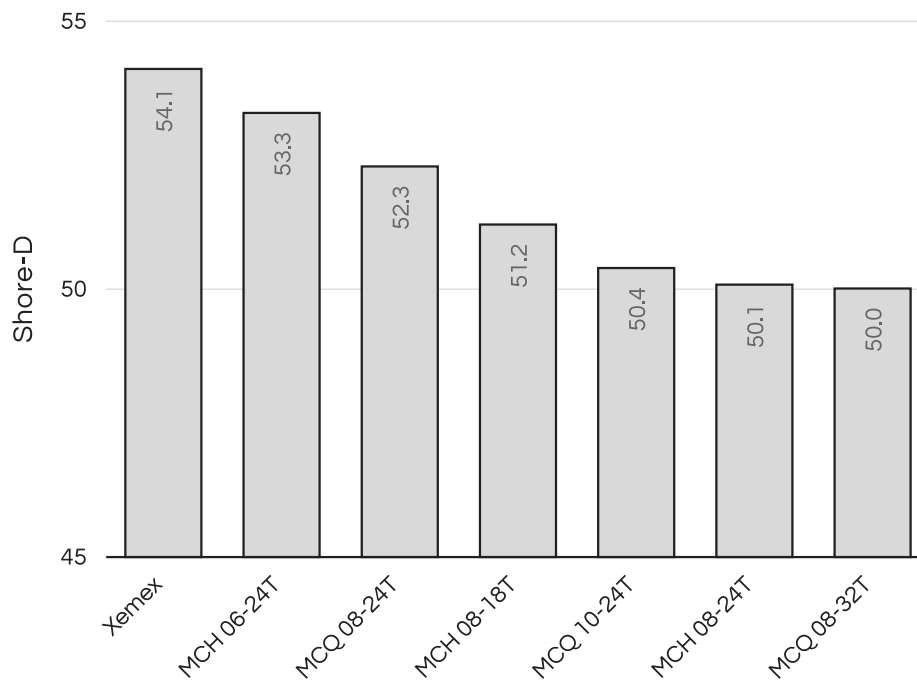


**Purpose** To compare the mixing performance of the Xemex® Static Mixer with commercially available mixers.

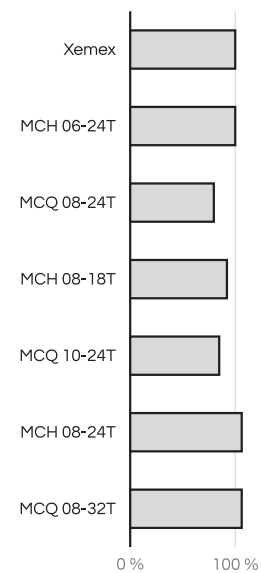
**Experimental** The 2-part formulation was dispensed using Re Mixer’s automated cartridge dispenser, having preset flow rate and purge routines. After curing at room temperature for 70 hours, hardness was determined through a single-blind collection using Rex Gauge’s RX-DD Series Durometer, and in accordance with ASTM D2240.

# ResinLab® EP1282-Black

## Cured Hardness



Relative Pressure\*



\*Normalized from 0.1 mL/s constant flow rate data

**Mixing Performance** The hardness data suggests Xemex yielded the best mixing performance for ResinLab® EP1282. With a retained volume of only 2.5 mL, Xemex outperformed mixers with 18 to 32 elements, which have retained volumes of upwards of 10 mL. These results suggest that Xemex is a candidate to replace both helical and square mixers in applications using EP1282.

**Back Pressure** From this data, one should expect back pressures with Xemex to be comparable to MCQ 08-32T or MCH 08-24T and lower than MCH 06-24T at equivalent flow rates.

Formulation	Type	Mix Ratio**	Mixed** (cP)	Part A**	Part B**	Pot Life** (min)	Keywords
ResinLab® EP1282-Black	Epoxy	1:1	3,000	7,500	2,000	60	—
Laboratory Technician	Cured Time	Laboratory		Report Prepared by			
Lukas Duddleston, MS	70 hours	23±2 °C   35±5 % RH		Lukas Duddleston, MS			

\*\*As reported in ResinLab’s Technical Data Sheet

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