

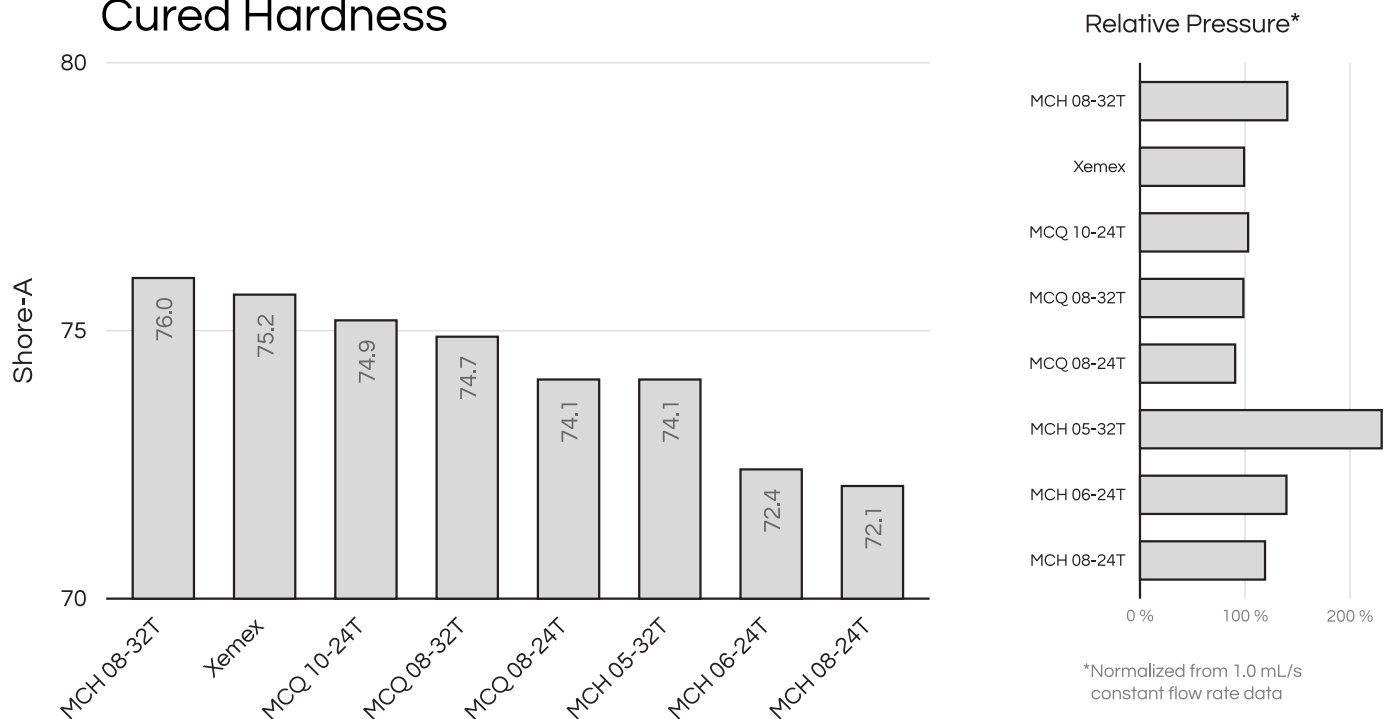


Purpose To compare the mixing performance of the Xemex® Static Mixer with commercially available mixers.

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 90 hours, hardness was determined through a single-blind collection using Rex Gauge’s RX-DD Series Durometer, and in accordance with ASTM D2240.

ResinLab® UR6001-Black

Cured Hardness



Mixing Performance The hardness data suggests that Xemex yielded good mixing performance for ResinLab® UR6001 Black. With a retained volume of only 2.5 mL, Xemex was comparable, if not better, than mixers with 24 and 32 elements, which have retained volumes in the order of 5 to 10 mL. These results suggest that Xemex is a candidate to replace both helical and square mixers in applications using UR6001.

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

Formulation	Type	Mix Ratio**	Mixed** (cP)	Part A**	Part B**	Pot Life** (min)	Keywords
ResinLab® UR6001-Black	Urethane	2:1	6,800	24,000	200	25	—
Laboratory Technician	Cured Time	Laboratory		Report Prepared by			
Lukas Duddleston, MS	90 hours	23±2 °C 35±5 % RH		Lukas Duddleston, MS			

**As reported in ResinLab’s Technical Data Sheet

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