

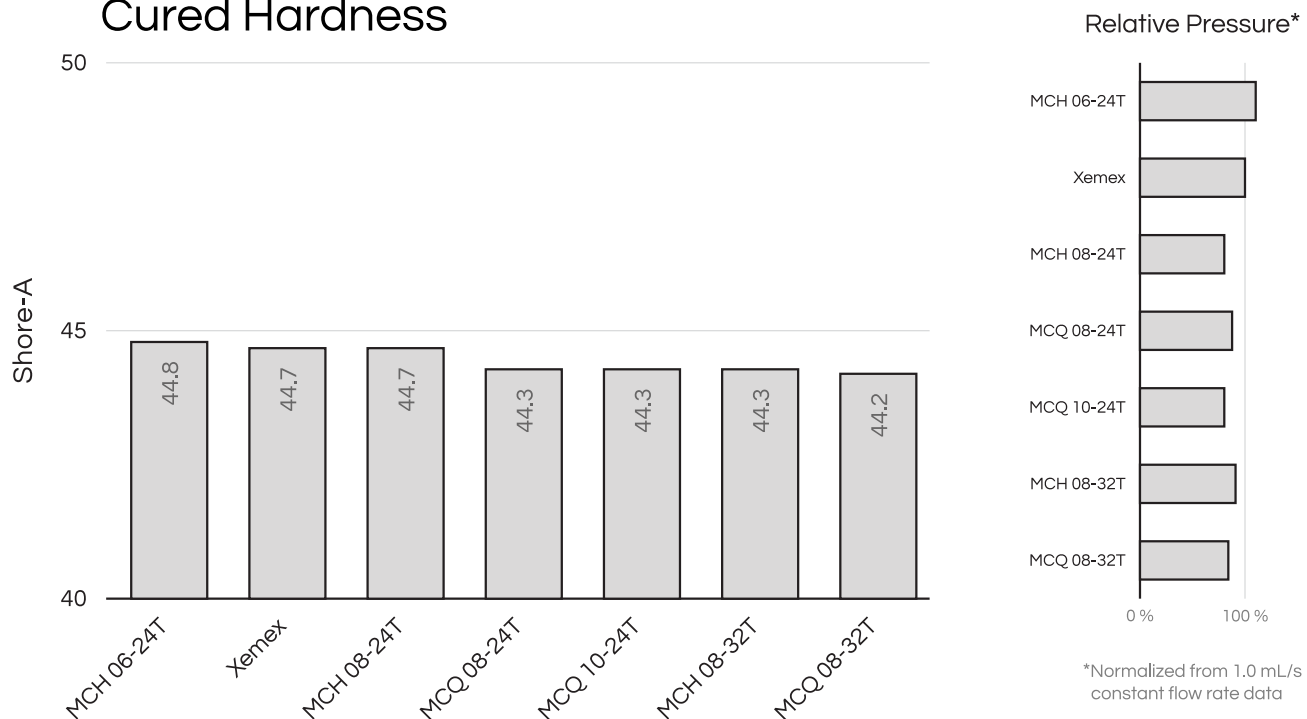


Purpose To compare the mixing performance of the Xemex® Static Mixer with commercially available mixers.

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

ResinLab® UR3010-Black

Cured Hardness



Mixing Performance The hardness data suggests that Xemex yielded good mixing performance for ResinLab® UR3010 Black. With a retained volume of only 2.5 mL, Xemex outperformed 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 strong candidate to replace both helical and square mixers in applications using UR3010.

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

Formulation	Type	Mix Ratio**	Mixed** (cP)	Part A**	Part B**	Pot Life** (min)	Keywords
ResinLab® UR3010-Black	Urethane	1:1	550	1,100	250	5 to 10	—

Laboratory Technician	Cured Time	Laboratory	Report Prepared by
Lukas Duddleston, MS	24 hours	23±2 °C 35±5 % RH	Lukas Duddleston, MS

**As reported in ResinLab’s Technical Data Sheet

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