

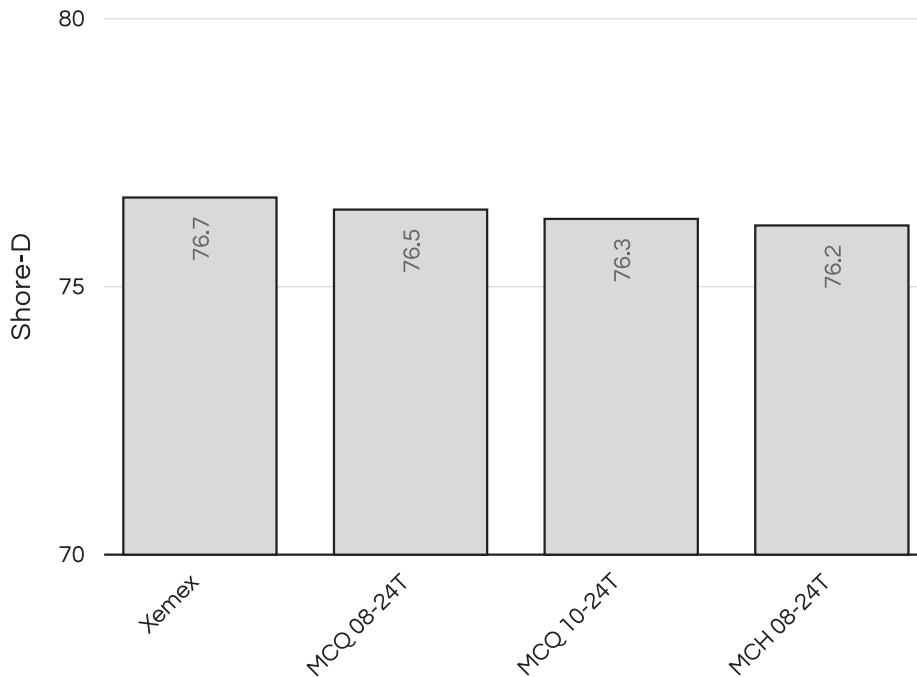


Purpose To compare the mixing performance of the Xemex® Static Mixer with commercially available mixers.

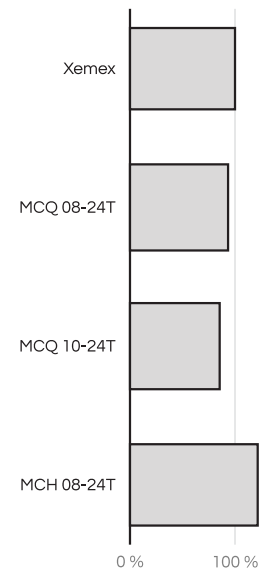
Experimental The 2-part formulation was dispensed using Re Mixer’s automated cartridge dispenser, having preset flow rate and purge routines. After curing at room temperature for 29 hours, hardness was determined through a single-blind collection using Rex Gauge’s RX-DD Series Durometer, and in accordance with ASTM D2240.

ResinLab® AR4305HP-Cream

Cured Hardness



Relative Pressure*



*Normalized from 0.1 mL/s constant flow rate data

Mixing Performance The hardness data suggests that Xemex yielded the best mixing performance for ResinLab® AR4305HP adhesive. With a retained volume of only 2.5 mL, Xemex outperformed mixers with 24 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 AR4305HP.

Back Pressure From the data, one should expect back pressures with Xemex to marginally higher than a MCQ 08-24T but slightly less than a MCH 08-24T at equivalent flow rates.

Formulation	Type	Mix Ratio**	Mixed** (cP)	Part A**	Part B**	Working Time** (min)	Keywords
ResinLab® AR4305HP-Cream	Acrylic	1:1	280,000	250,000	300,000	5 to 6	—

Laboratory Technician	Cured Time	Laboratory	Report Prepared by
Lukas Duddleston, MS	29 hours	23±2 °C 35±5 % RH	Lukas Duddleston, MS

**As reported in ResinLab’s Technical Data Sheet

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