

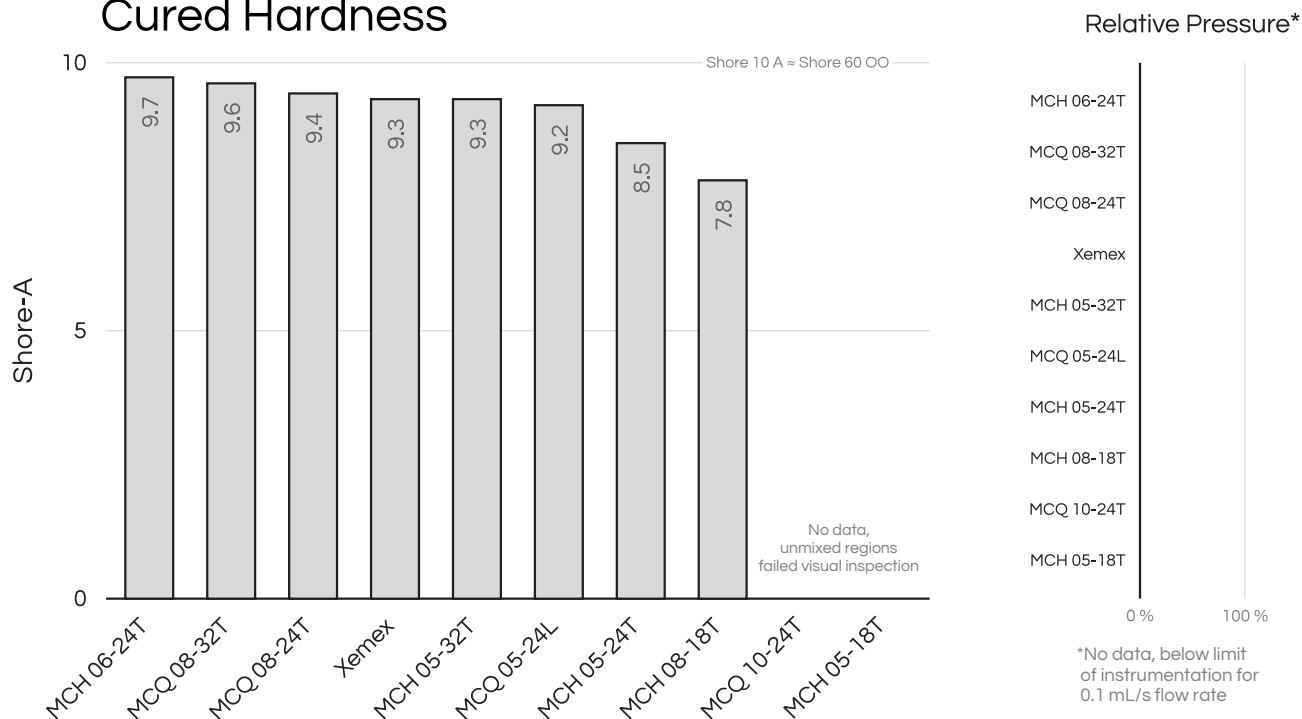


Purpose To compare the mixing performance of the Xemex® Static Mixer with commercially available mixers.

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

Dowsil™ 3-4241

Cured Hardness



Mixing Performance The hardness data suggests that Xemex yielded acceptable mixing performance for Dowsil™ 3-4241 Dielectric Tough Gel. Xemex matched or outperformed all 5 mm MCH mixers tested, which have similar retained volumes. Xemex performed comparably to 8 mm square mixers, which retain 2 to 3 times more adhesive compared to Xemex. These results suggest that Xemex is a suitable candidate to replace both helical and square mixers in applications using this Dowsil™ 3-4241.

Back Pressure Due to the low viscosity of Dowsil™ 3-4241, the pressure was below the limits of the measurement system. However, from all past experiments, it would be expected that Xemex would have a lower pressure than the 5 mm helical mixers (e.g. MCH 05-24T), and roughly the same as the 8 mm helical (e.g. MCH 08-24T).

Formulation	Type	Mix Ratio**	Mixed** (cP)	Part A**	Part B**	Working Time** (min)	Keywords
Dowsil™ 3-4241	Silicone	1:1	—	425	400	> 60	Dielectric Tough Gel

Laboratory Technician	Cured Time	Laboratory	Report Prepared by
Lukas Duddleston, MS	7 Days	23±2 °C 35±5 % RH	Lukas Duddleston, MS

**As reported in Dow’s Technical Data Sheet

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