

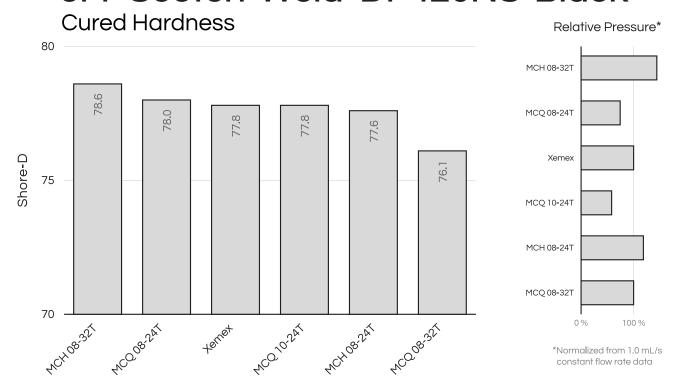
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Experiment FD | September 15, 2021 | Rev. 2

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

3M[™] Scotch-Weld[®] DP420NS-Black



Mixing Performance The hardness data suggests that Xemex yielded good mixing performance for 3M Scotch-Weld® DP420NS-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 15 mL. These results suggest that Xemex is a candidate to replace the current mixer in applications using DP420NS.

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

| Formulation | Туре | Mix Ratio** | Mixed** (cP) | Part A** | Part B** | Worklife** (min) | Keywords |
|----------------------------------|-------|-------------|--------------|-----------------------|----------------------|----------------------|----------|
| 3M Scotch-Weld® DP420NS-Black | Ероху | 2:1 | _ | 190,000 to 270,000 | 60,000 to 130,000 | 20 | _ |
| Laboratory Technician | | Cured Time | | Laboratory | | Report Prepared by | |
| Lukas Duddleston, MS | | 25 hours | | 23±2°C 35±5 % RH | | Lukas Duddleston, MS | |

^{**}As reported in 3M's Technical Data Sheet

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