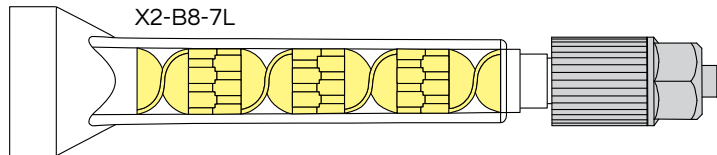
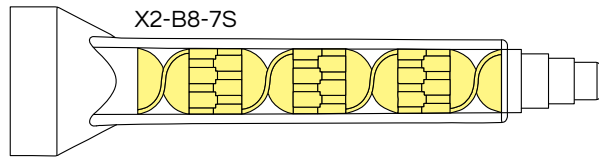
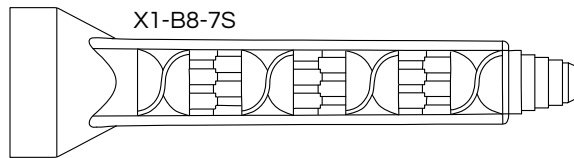




White Papers

xemex[®]





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White Paper Table of Contents

XEMEX SKU
X1-B8-7S
X2-B8-7S
X2-B8-7L

June 2022

Epoxy

Formulation	Mix Ratio**	Mixed** (cP)	Part A**	Part B**	Open Time** (min)	Keywords
3M™ Scotch-Weld® LSB60	1:1	—	17,200	68,200	90	Filled
3M™ Scotch-Weld® DP190-Gray	1:1	—	75,000 to 150,000	40,000 to 60,000	90	—
3M™ Scotch-Weld® DP270-Black	1:1	—	7,000 to 16,000	6,000 to 12,000	60-70	—
3M™ Scotch-Weld® DP420NS-Black	2:1	—	190,000 to 270,000	60,000 to 130,000	20	—
Ashland™ Pliogrip™ 5770P	2:1	—	Viscous Paste	Viscous Paste	90	Filled - Glass Beads
ResinLab® EP11HT-Gray	1:1	380,000	442,000	343,000	180	Thixotropic
ResinLab® EP1290-Gray	1:1	70,000	115,000	45,000	73	—
ResinLab® EP1282-Black	1:1	3,000	7,500	2,000	60	—
ResinLab® EP1200-Black	1:1	36,000	32,000	30,000	23	Aluminum Oxide Filled

Urethane

Formulation	Mix Ratio**	Mixed** (cP)	Part A**	Part B**	Open Time** (min)	Keywords
Parker LORD® 7545A/C	1:1	—	25,000 to 70,000	230,000 to 650,000	6 to 8	—
Ashland™ Pliogrip™ 7775L	1:1	—	14,500	20,500	5	Self-Leveling
Ashland™ Pliogrip™ 7779	1:1	—	15,000	20,500	10	—
ResinLab® UR3001HP2-Black	1:1	2,100	200	4,500	3	—
ResinLab® UR3010-Black	1:1	550	1,100	250	5 to 10	—
ResinLab® UR6001-Black	2:1	6,800	24,000	200	25	—

Acrylic / Methacrylate

Formulation	Mix Ratio**	Mixed** (cP)	Part A**	Part B**	Open Time** (min)	Keywords
ITW Plexus® MA530	1:1	—	130,000 to 180,000	80,000 to 140,000	30 to 40	—
ITW Plexus® MA8110	1:1	—	40,000 to 80,000	40,000 to 80,000	8 to 12	—
Parker LORD® 406-19GB	4:1	—	100,000 to 300,000	100,000 to 400,000	6 to 10	Glass Bead Filled
ResinLab® AR4305HP-Cream	1:1	280,000	250,000	300,000	5 to 6	—

Silicone

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

**As reported in the Manufacturer's Technical Data Sheet



Epoxies

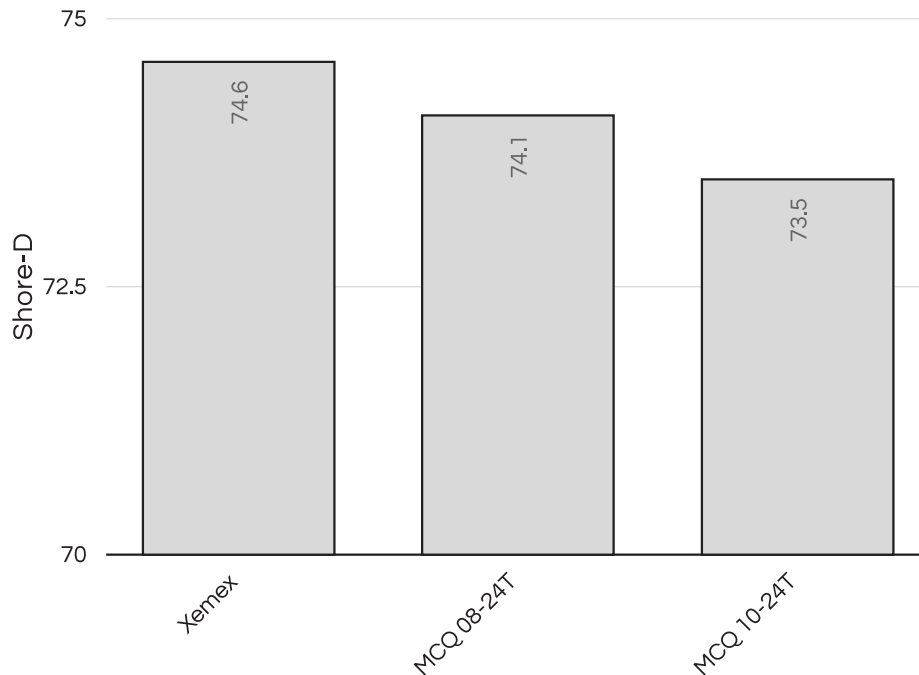


Purpose To compare the mixing performance of the Xemex® Static Mixer with commercially available mixers.

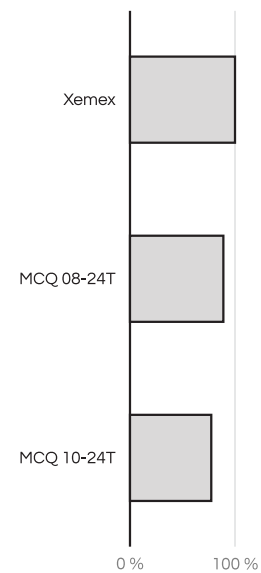
Experimental The 2-part formulation was dispensed using Re Mixer’s automated cartridge dispenser, having preset flow rate and purge routines. After curing at room temperature for 48 hours, hardness was determined through a single-blind collection using Rex Gauge’s RX-DD Series Durometer, and in accordance with ASTM D2240.

3M™ Scotch-Weld® LSB60

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 3M™ Scotch-Weld® LSB60 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 candidate for applications using LSB60.

Back Pressure From this data, one should expect back pressures with Xemex to be comparable to MCH 08-24T and slightly higher than MCQ 10-24T at equivalent flow rates.

Formulation	Type	Mix Ratio**	Mixed** (cP)	Part A**	Part B**	Worklife** (min)	Keywords
3M™ Scotch-Weld® LSB60	Epoxy	1:1	—	17,200	68,200	90	Filled
Laboratory Technician	Cured Time	Laboratory		Report Prepared by			
Lukas Duddleston, MS	48 hours	23±2 °C 35±5 % RH		Lukas Duddleston, MS			

**As reported in 3M’s Technical Data Sheet

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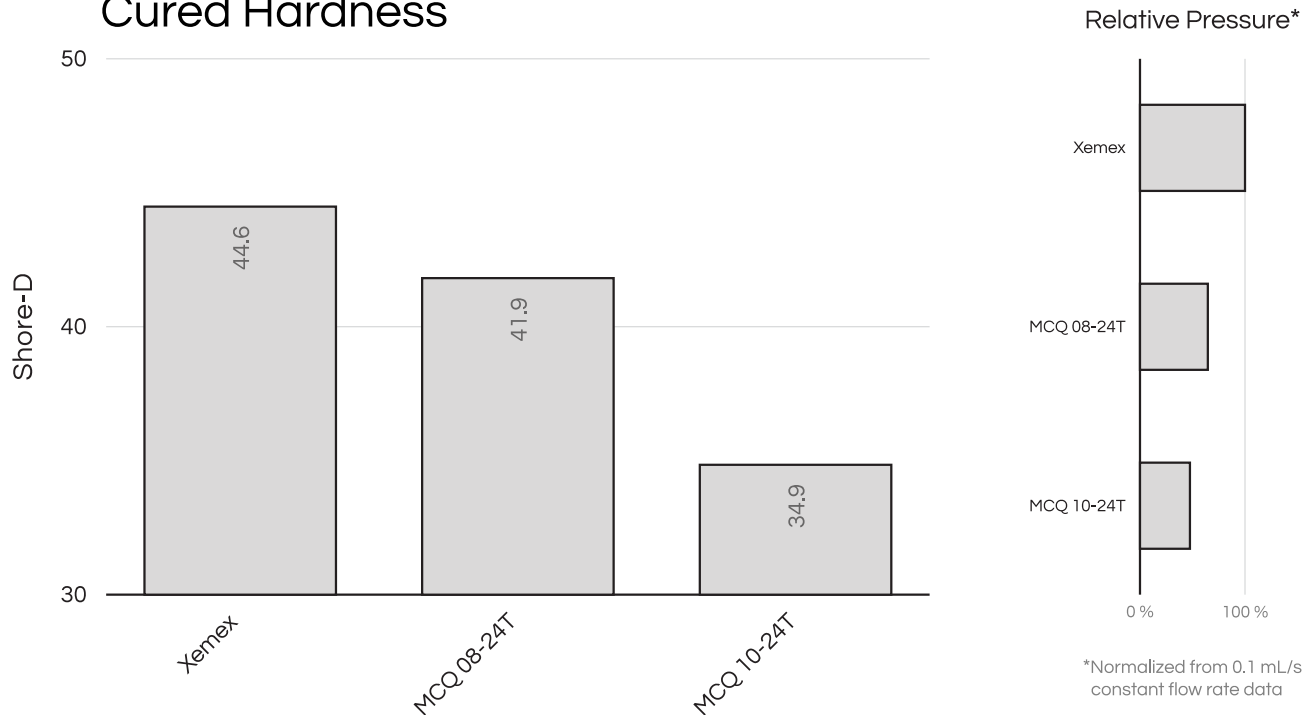


Purpose To compare the mixing performance of the Xemex® Static Mixer with commercially available mixers.

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 40 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® DP190-Gray

Cured Hardness



Mixing Performance The hardness data suggests that Xemex yielded the best mixing performance for 3M™ Scotch-Weld® DP190 Gray 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 for applications using DP190 Gray.

Back Pressure From this data, one should expect back pressures with Xemex to be higher than MCQ 08-24T and MCQ 10-24T at equivalent flow rates.

Formulation	Type	Mix Ratio**	Mixed** (cP)	Part A**	Part B**	Worklife** (min)	Keywords
3M™ Scotch-Weld® DP190 Gray	Epoxy	1:1	—	75,000 to 150,000	40,000 to 60,000	90	—

Laboratory Technician	Cured Time	Laboratory	Report Prepared by
Lukas Duddleston, MS	40 hours	23±2 °C 35±5 % RH	Lukas Duddleston, MS

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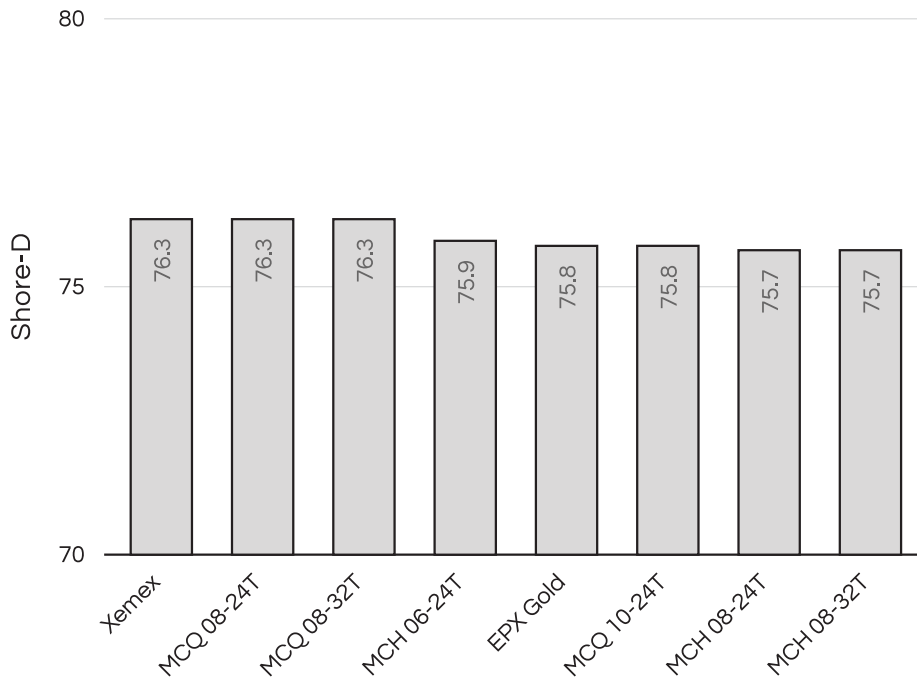


Purpose To compare the mixing performance of the Xemex® Static Mixer with commercially available mixers.

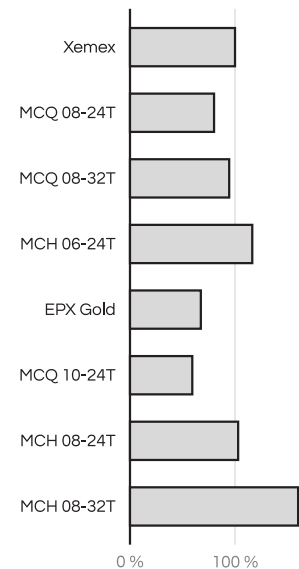
Experimental The 2-part formulation was dispensed using Re Mixer’s automated cartridge dispenser, having preset flow rate and purge routines. After curing at room temperature for 48 hours, hardness was determined through a single-blind collection using Rex Gauge’s RX-DD Series Durometer, and in accordance with ASTM D2240.

3M™ Scotch-Weld® DP270-Black

Cured Hardness



Relative Pressure*



*Normalized from 1.0 mL/s constant flow rate data

Mixing Performance The hardness data suggests that Xemex provided excellent mixing performance for 3M™ Scotch-Weld® DP270-Black. With a retained volume of only 2.5 mL, Xemex matched both square and helical 32 and 24 element mixers, which have retained volumes in the order of 5 to 20 mL, while outperforming the 5 mm helical of a similar retained volume. These results suggest that Xemex is a strong candidate for applications using DP270.

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

Formulation	Type	Mix Ratio**	Mixed** (cP)	Part A**	Part B**	Worklife** (min)	Keywords
3M™ Scotch-Weld® DP270-Black	Epoxy	1:1	—	7,000 to 16,000	6,000 to 12,000	60-70	—
Laboratory Technician	Cured Time	Laboratory	Report Prepared by				
Lukas Duddleston, MS	48 hours	23±2 °C 35±5 % RH	Lukas Duddleston, MS				

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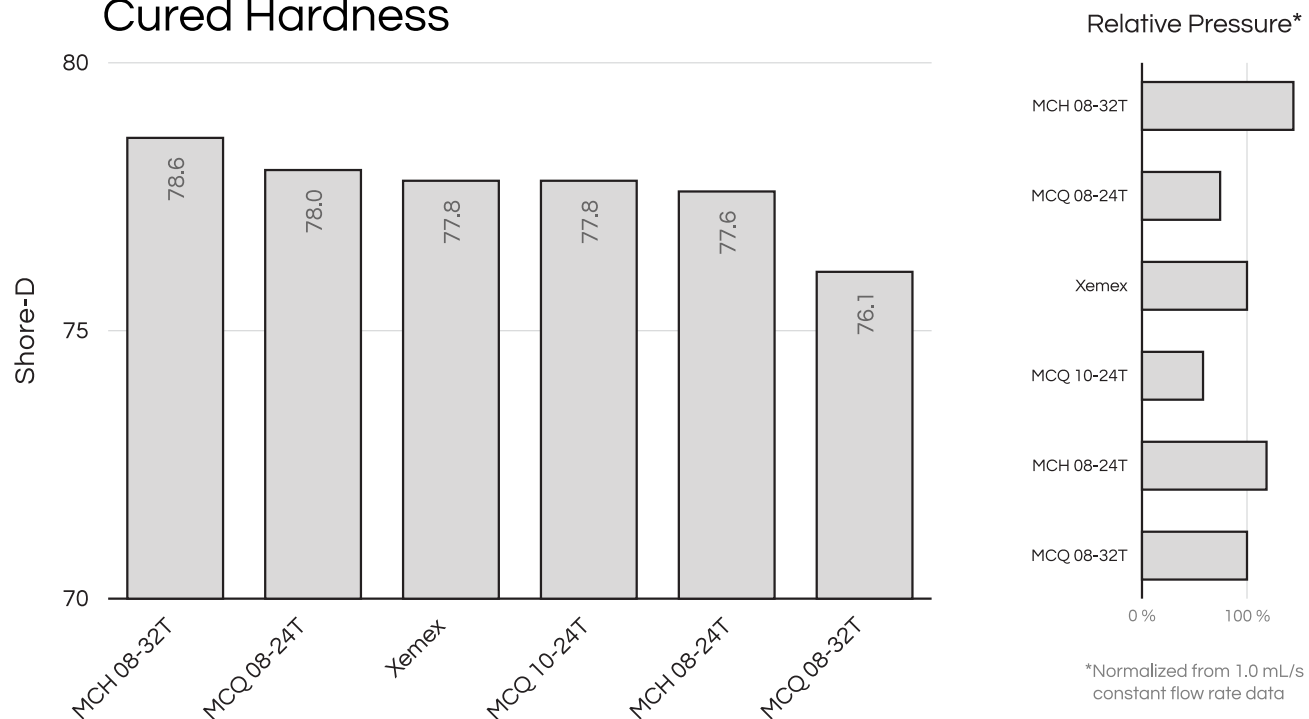


Purpose To compare the mixing performance of the Xemex® Static Mixer with commercially available mixers.

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

Cured Hardness



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	Type	Mix Ratio**	Mixed** (cP)	Part A**	Part B**	Worklife** (min)	Keywords
3M Scotch-Weld® DP420NS-Black	Epoxy	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	

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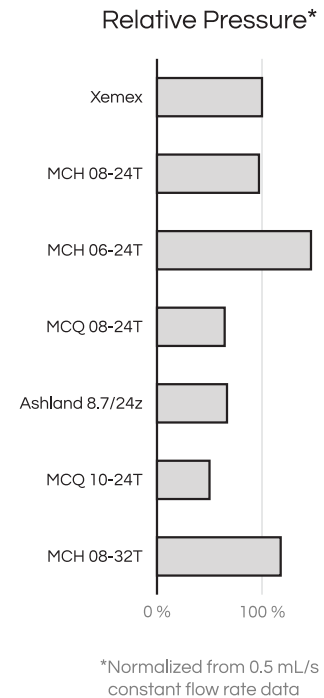
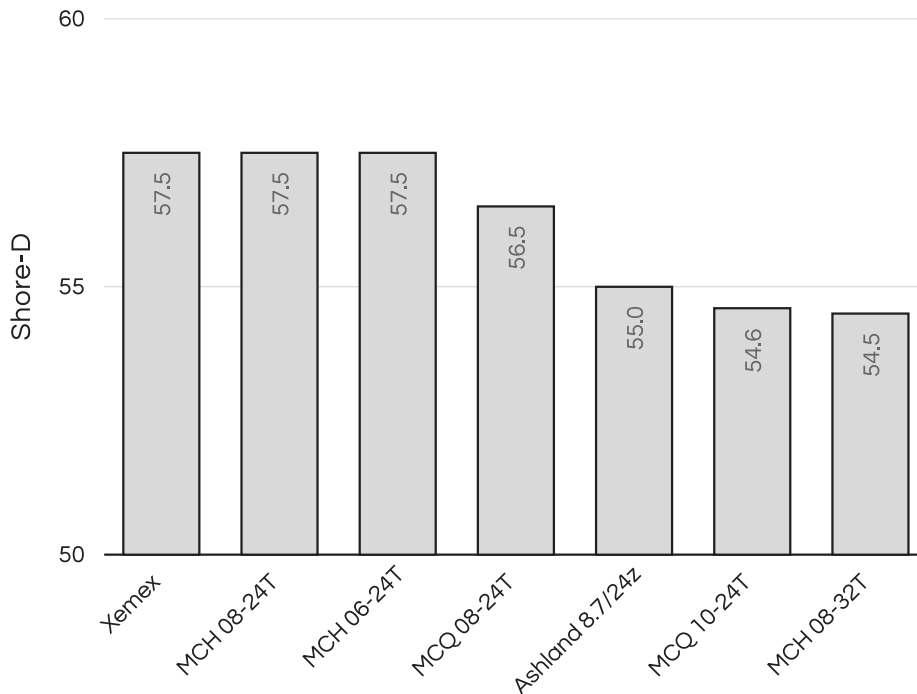


Purpose To compare the mixing performance of the Xemex® Static Mixer with commercially available mixers.

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.

Ashland™ Pliogrip™ 5770P

Cured Hardness



Mixing Performance The hardness data suggests that Xemex yielded good mixing performance for Ashland™ Pliogrip™ 5770P. 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 strong candidate to replace the current mixer in applications using Pliogrip 5770P.

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

Formulation	Type	Mix Ratio**	Mixed** (cP)	Part A**	Part B**	Open Time** (min)	Keywords
Ashland™ Pliogrip™ 5570P	Epoxy	2:1	—	Viscous Paste	Viscous Paste	90	Filled - Glass Beads
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 Ashland’s Technical Data Sheet

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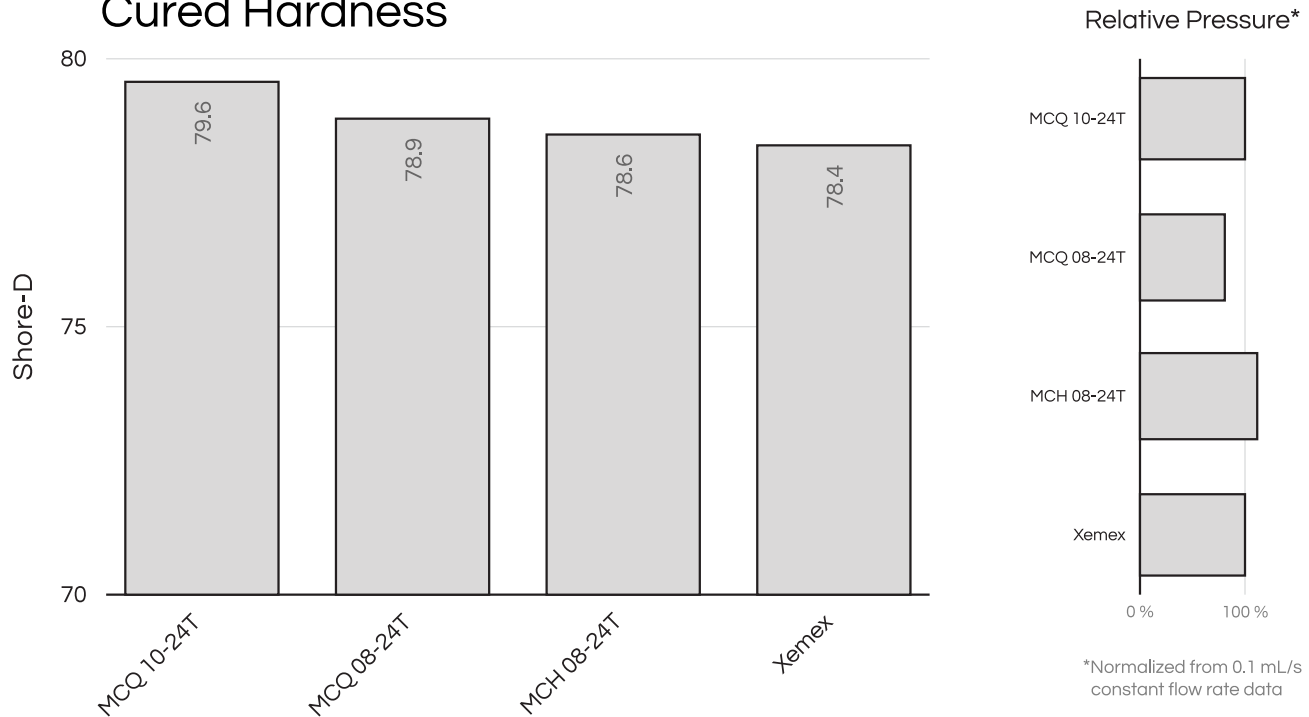


Purpose To compare the mixing performance of the Xemex® Static Mixer with commercially available mixers.

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

ResinLab® EP11HT-Gray

Cured Hardness



Mixing Performance The hardness data suggests Xemex provides similar mixing performance for ResinLab® EP11HT. With a retained volume of only 2.5 mL, Xemex closely matches the mix quality of other mixers with 24 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 EP11HT.

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

Formulation	Type	Mix Ratio**	Mixed** (cP)	Part A**	Part B**	Pot Life** (min)	Keywords
ResinLab® EP11HT-Gray	Epoxy	1:1	380,000	442,000	343,000	180	Thixotropic

Laboratory Technician	Cured Time	Laboratory	Report Prepared by
Lukas Duddleston, MS	48 hours	23±2 °C 35±5 % RH	Lukas Duddleston, MS

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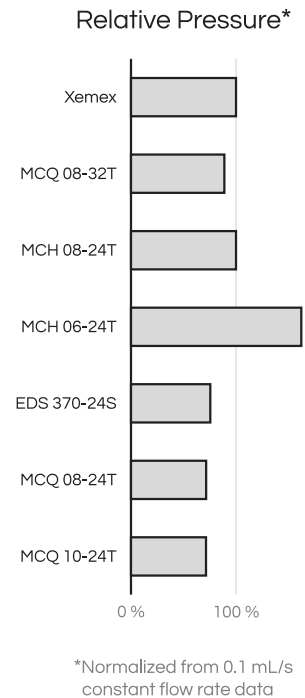
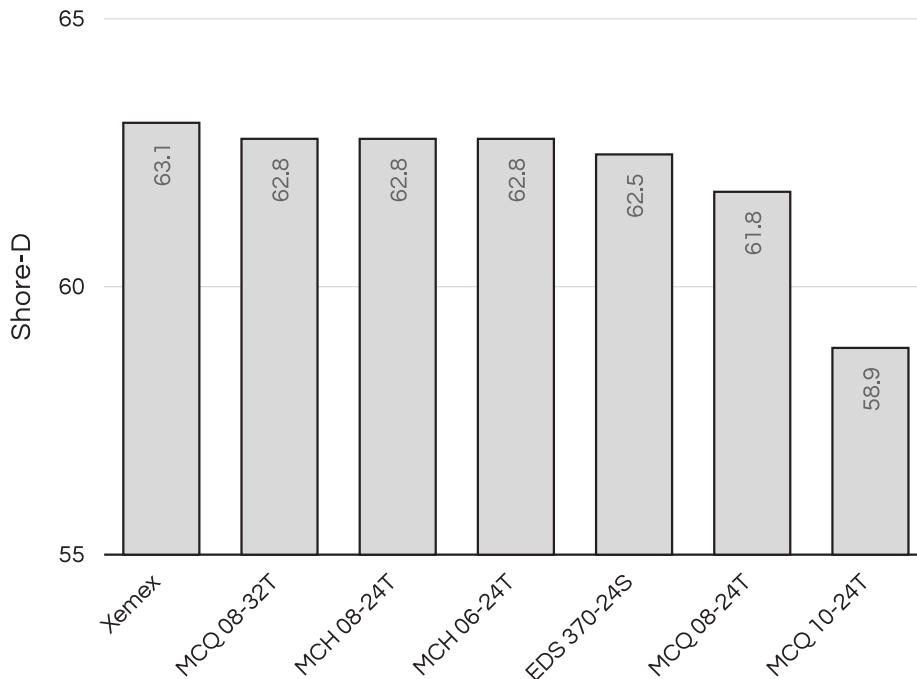


Purpose To compare the mixing performance of the Xemex® Static Mixer with commercially available mixers.

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

ResinLab® EP1290-Gray

Cured Hardness



Mixing Performance The hardness data suggests that Xemex yielded the best mixing performance for ResinLab® EP1290 Gray adhesive. 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 EP1290.

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

Formulation	Type	Mix Ratio**	Mixed** (cP)	Part A**	Part B**	Pot Life** (min)	Keywords
ResinLab® EP1290-Gray	Epoxy	1:1	70,000	115,000	45,000	73	—
Laboratory Technician		Cured Time		Laboratory		Report Prepared by	
Lukas Duddleston, MS		72 hours		23±2 °C 35±5 % RH		Lukas Duddleston, MS	

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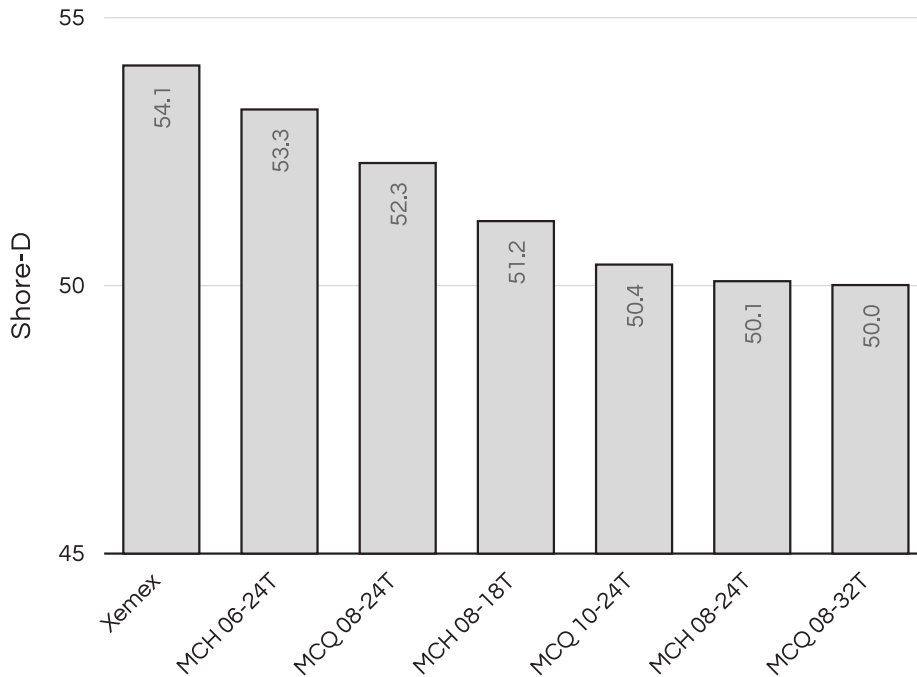


Purpose To compare the mixing performance of the Xemex® Static Mixer with commercially available mixers.

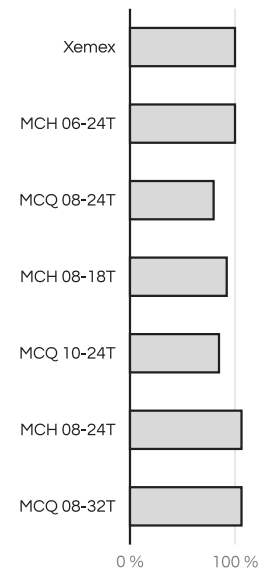
Experimental The 2-part formulation was dispensed using Re Mixer’s automated cartridge dispenser, having preset flow rate and purge routines. After curing at room temperature for 70 hours, hardness was determined through a single-blind collection using Rex Gauge’s RX-DD Series Durometer, and in accordance with ASTM D2240.

ResinLab® EP1282-Black

Cured Hardness



Relative Pressure*



*Normalized from 0.1 mL/s constant flow rate data

Mixing Performance The hardness data suggests Xemex yielded the best mixing performance for ResinLab® EP1282. With a retained volume of only 2.5 mL, Xemex outperformed mixers with 18 to 32 elements, which have retained volumes of upwards of 10 mL. These results suggest that Xemex is a candidate to replace both helical and square mixers in applications using EP1282.

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

Formulation	Type	Mix Ratio**	Mixed** (cP)	Part A**	Part B**	Pot Life** (min)	Keywords
ResinLab® EP1282-Black	Epoxy	1:1	3,000	7,500	2,000	60	—
Laboratory Technician		Cured Time		Laboratory		Report Prepared by	
Lukas Duddleston, MS		70 hours		23±2 °C 35±5 % RH		Lukas Duddleston, MS	

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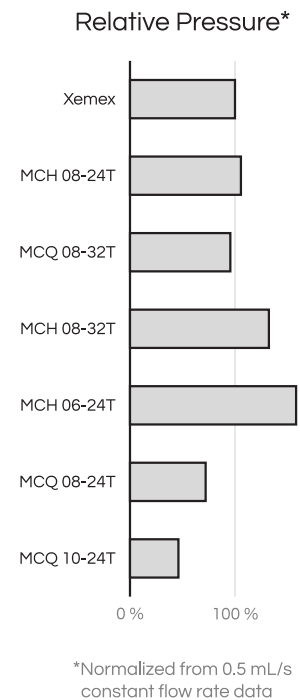
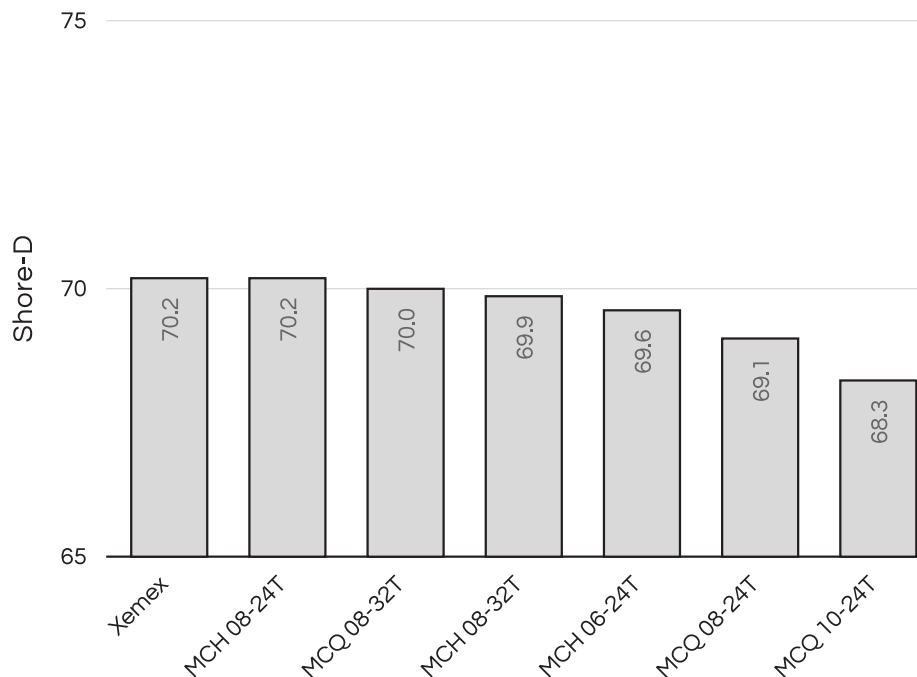


Purpose To compare the mixing performance of the Xemex® Static Mixer with commercially available mixers.

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

ResinLab® EP1200-Black

Cured Hardness



Mixing Performance The hardness data suggests that Xemex yielded good mixing performance for ResinLab® EP1200 Black. With a retained volume of only 2.5 mL, Xemex matched or 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 good candidate to replace both helical and square mixers in applications using EP1200.

Back Pressure From this data, one should expect back pressures with Xemex to be comparable to 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® EP1200-Black	Epoxy	1:1	36,000	32,000	30,000	23	Aluminum Oxide Filled
Laboratory Technician	Cured Time	Laboratory	Report Prepared by				
Lukas Duddleston, MS	66 hours	23±2 °C 35±5 % RH	Lukas Duddleston, MS				

**As reported in ResinLab’s Technical Data Sheet

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Urethanes

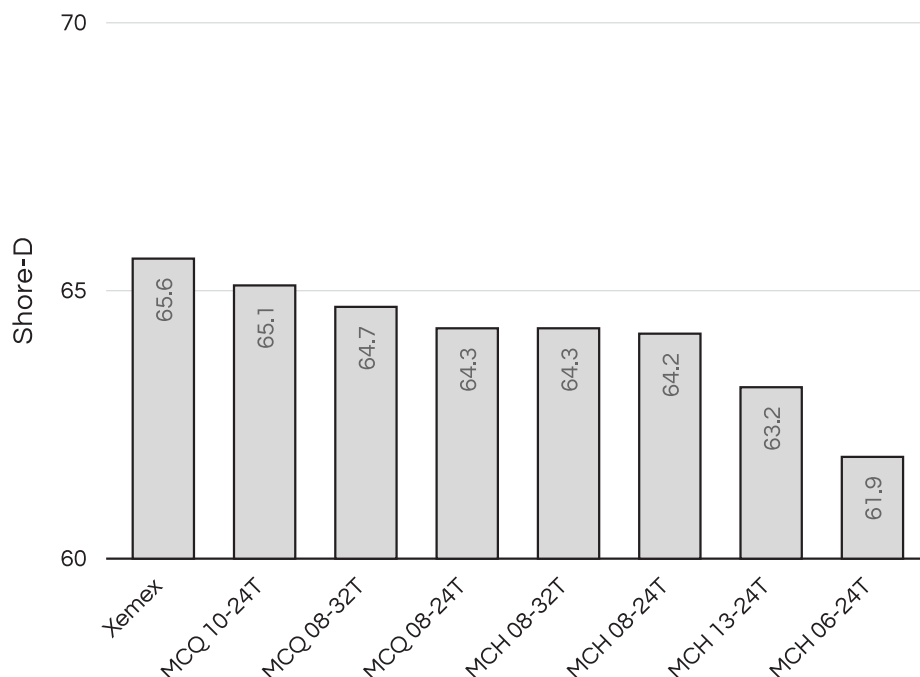


Purpose To compare the mixing performance of the Xemex® Static Mixer with commercially available mixers.

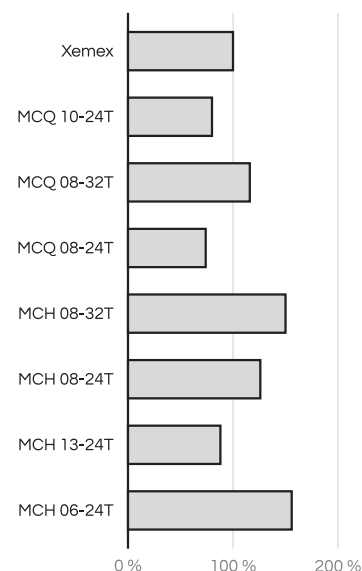
Experimental The 2-part formulation was dispensed using Re Mixer’s automated cartridge dispenser, having preset flow rate and purge routines. After curing at room temperature for 36 hours, hardness was determined through a single-blind collection using Rex Gauge’s RX-DD Series Durometer, and in accordance with ASTM D2240.

Parker LORD® 7545A/C

Cured Hardness



Relative Pressure*



*Normalized from 1.0 mL/s constant flow rate data

Mixing Performance The hardness data suggests that Xemex yielded good mixing performance for Parker LORD® 7545A/C. 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 30 mL. These results suggest that Xemex is a candidate to replace both helical and square mixers in applications using 7545A/C.

Back Pressure From this data, one should expect back pressures with Xemex to be comparable to MCH 08-24T or MCH 13-24T but lower than MCH 08-24T or MCH 06-24T at equivalent flow rates.

Formulation	Type	Mix Ratio**	Mixed** (cP)	Part A**	Part B**	Working Time** (min)	Keywords
Parker LORD® 7545A/C	Urethane	1:1	—	25,000 to 70,000	230,000 to 650,000	6 to 8	—
Laboratory Technician		Cured Time		Laboratory		Report Prepared by	
Lukas Duddleston, MS		36 hours		23±2 °C 35±5 % RH		Lukas Duddleston, MS	

**As reported in Parker LORD’s Technical Data Sheet

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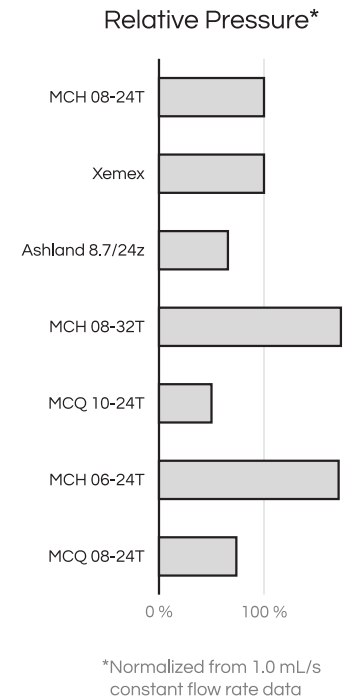
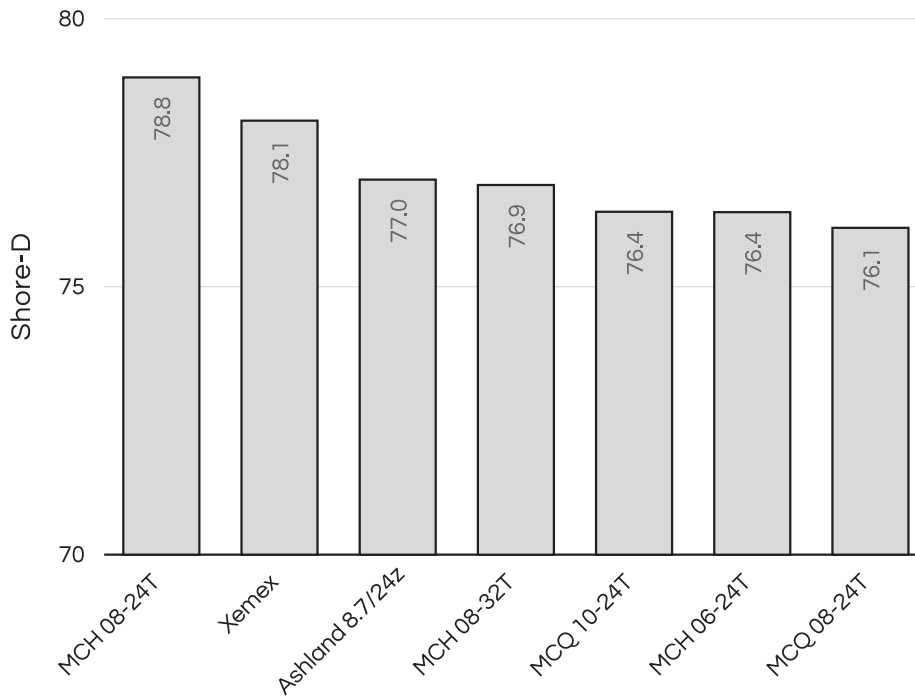


Purpose To compare the mixing performance of the Xemex® Static Mixer with commercially available mixers.

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.

Ashland™ Pliogrip™ 7775L

Cured Hardness



Mixing Performance The hardness data suggests that Xemex yielded good mixing performance for Ashland™ Pliogrip™ 7775L. 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 Pliogrip 7775L.

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

Formulation	Type	Mix Ratio**	Mixed** (cP)	Part A**	Part B**	Open Time** (min)	Keywords
Ashland™ Pliogrip™ 7775L	Urethane	1:1	—	14,500	20,500	5	Self-Leveling
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 Ashland’s Technical Data Sheet

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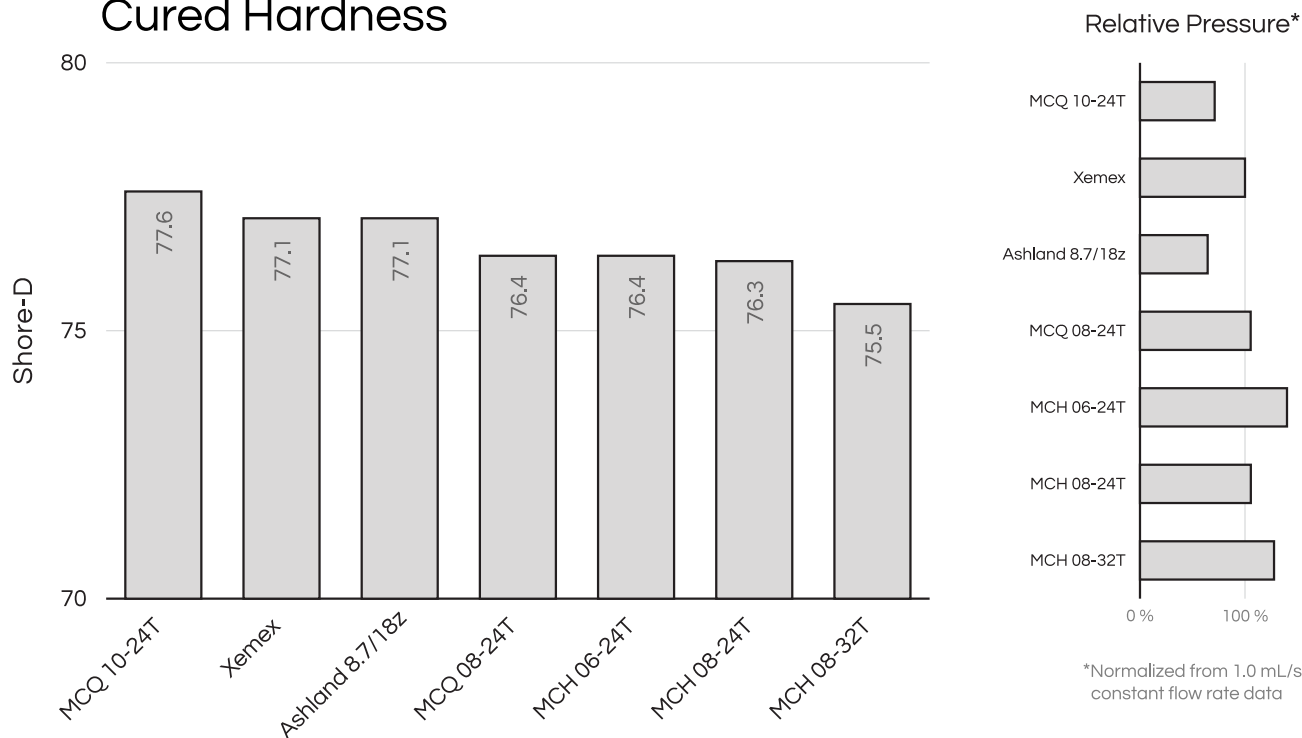


Purpose To compare the mixing performance of the Xemex® Static Mixer with commercially available mixers.

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.

Ashland™ Pliogrip™ 7779

Cured Hardness



Mixing Performance The hardness data suggests that Xemex yielded good mixing performance for Ashland™ Pliogrip™ 7779. With a retained volume of only 2.5 mL, Xemex outperformed mixers with 18, 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 Pliogrip 7779.

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

Formulation	Type	Mix Ratio**	Mixed** (cP)	Part A**	Part B**	Open Time** (min)	Keywords
Ashland™ Pliogrip™ 7779	Urethane	1:1	—	15,000	20,500	10	—

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

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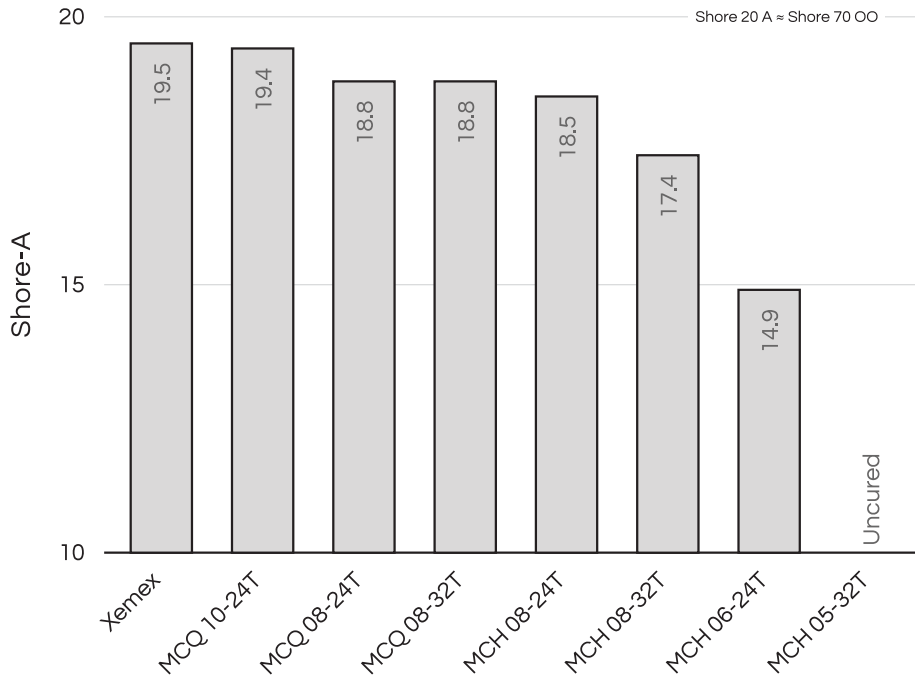


Purpose To compare the mixing performance of the Xemex® Static Mixer with commercially available mixers.

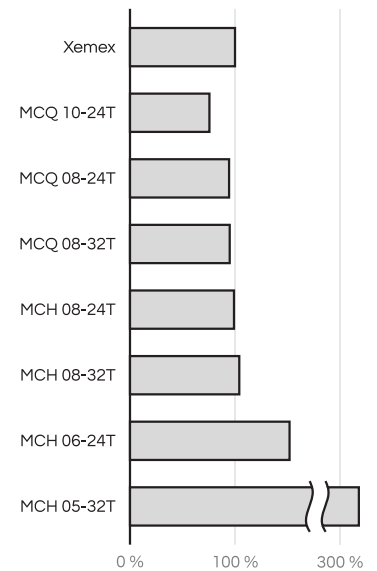
Experimental The 2-part formulation was dispensed using Re Mixer’s automated cartridge dispenser, having preset flow rate and purge routines. After curing at room temperature for 66 hours, hardness was determined through a single-blind collection using Rex Gauge’s RX-DD Series Durometer, and in accordance with ASTM D2240.

ResinLab® UR3001HP2-Black

Cured Hardness



Relative Pressure*



*Normalized from 1.0 mL/s constant flow rate data

Mixing Performance The hardness data suggests that Xemex yielded excellent mixing performance for ResinLab® UR3001HP2 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 UR3001HP2.

Back Pressure From this data, one should expect back pressures with Xemex to be comparable to 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® UR3001HP2-Black	Urethane	1:1	2,100	200	4,500	3	—
Laboratory Technician	Cured Time	Laboratory		Report Prepared by			
Lukas Duddleston, MS	66 hours	23±2 °C 35±5 % RH		Lukas Duddleston, MS			

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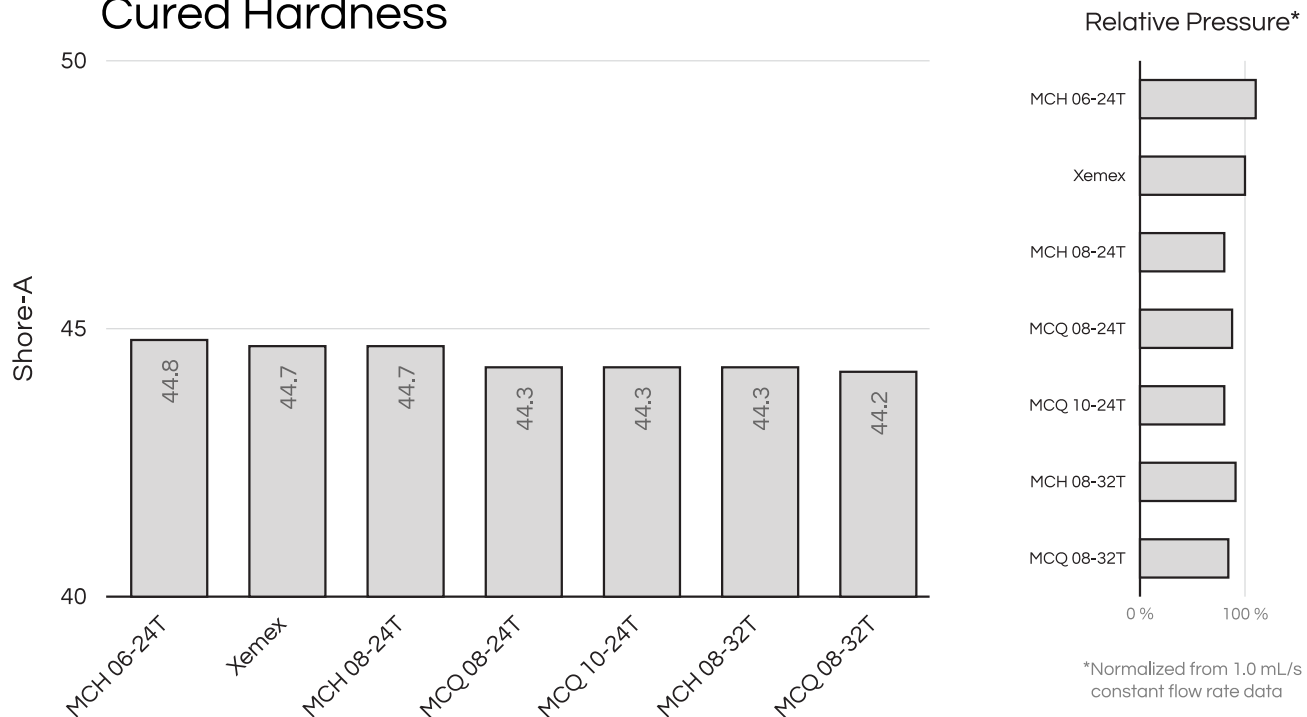


Purpose To compare the mixing performance of the Xemex® Static Mixer with commercially available mixers.

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

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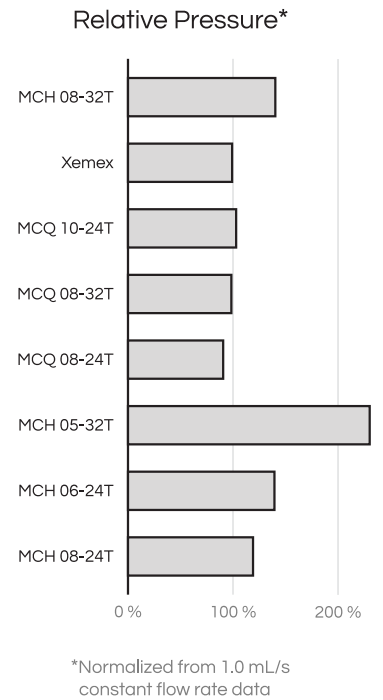
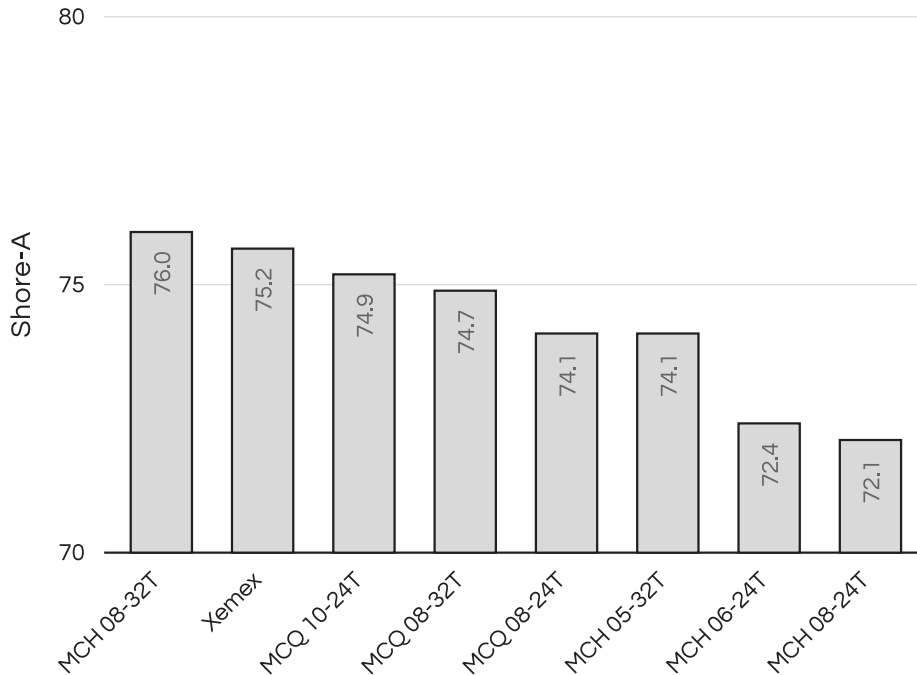


Purpose To compare the mixing performance of the Xemex® Static Mixer with commercially available mixers.

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				

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← Urethanes



Acrylics

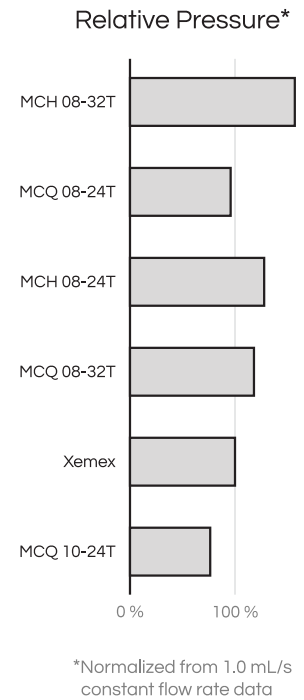
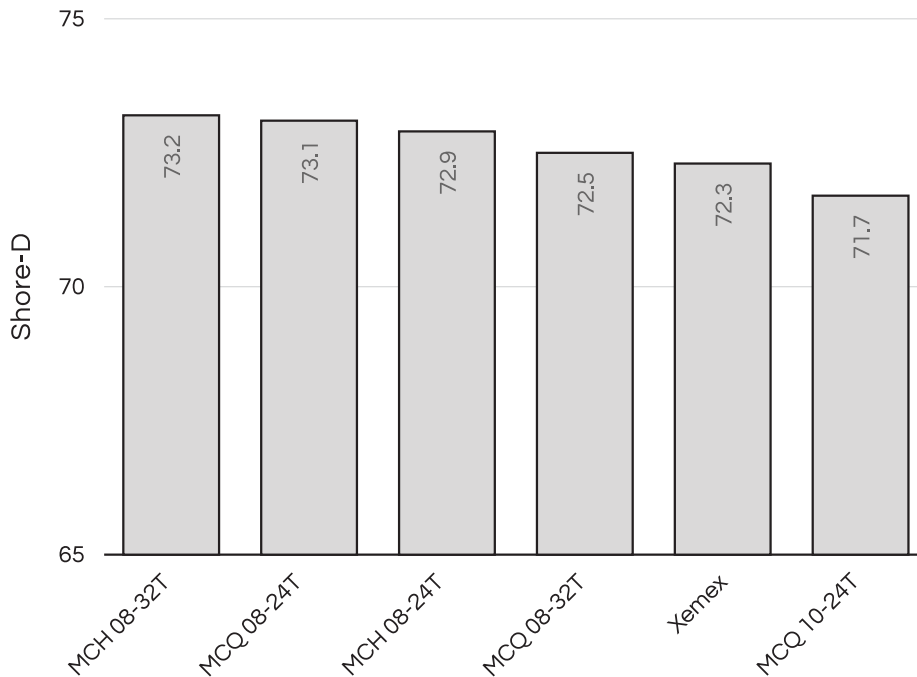


Purpose To compare the mixing performance of the Xemex® Static Mixer with commercially available mixers.

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

ITW Plexus® MA530-White

Cured Hardness



Mixing Performance The hardness data suggests that Xemex yielded similar mixing performance for ITW Plexus® MA530 (White Activator). With a retained volume of only 2.5 mL, Xemex matched 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 MA530.

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

Formulation	Type	Mix Ratio**	Mixed** (cP)	Part A**	Part B**	Working Time** (min)	Keywords
ITW Plexus® MA530	Methacrylate	1:1	—	130,000 to 180,000	80,000 to 140,000	30 to 40	—
Laboratory Technician		Cured Time		Laboratory		Report Prepared by	
Lukas Duddleston, MS		60 hours		23±2 °C 35±5 % RH		Lukas Duddleston, MS	

**As reported in ITW’s Technical Data Sheet

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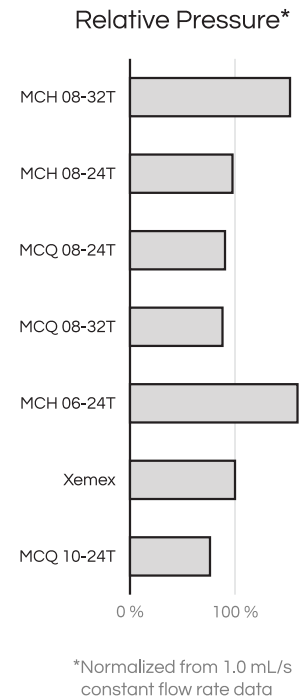
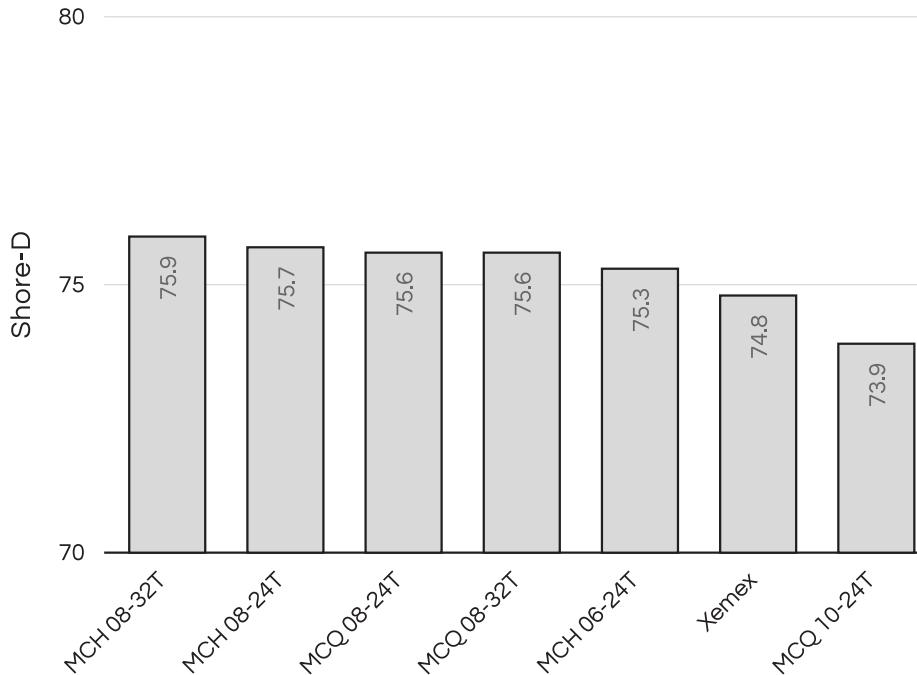


Purpose To compare the mixing performance of the Xemex® Static Mixer with commercially available mixers.

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.

ITW Plexus® MA8110

Cured Hardness



Mixing Performance The hardness data suggests that Xemex yielded similar mixing performance for ITW Plexus® MA8110. With a retained volume of only 2.5 mL, Xemex matched 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 MA8110.

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

Formulation	Type	Mix Ratio**	Mixed** (cP)	Part A**	Part B**	Working Time** (min)	Keywords
ITW Plexus® MA8110	Methacrylate	1:1	—	40,000 to 80,000	40,000 to 80,000	8 to 12	—
Laboratory Technician		Cured Time		Laboratory		Report Prepared by	
Lukas Duddleston, MS		24 hours		23±2 °C 35±5 % RH		Lukas Duddleston, MS	

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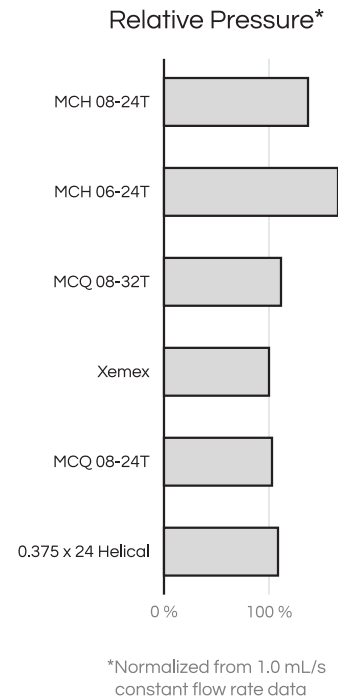
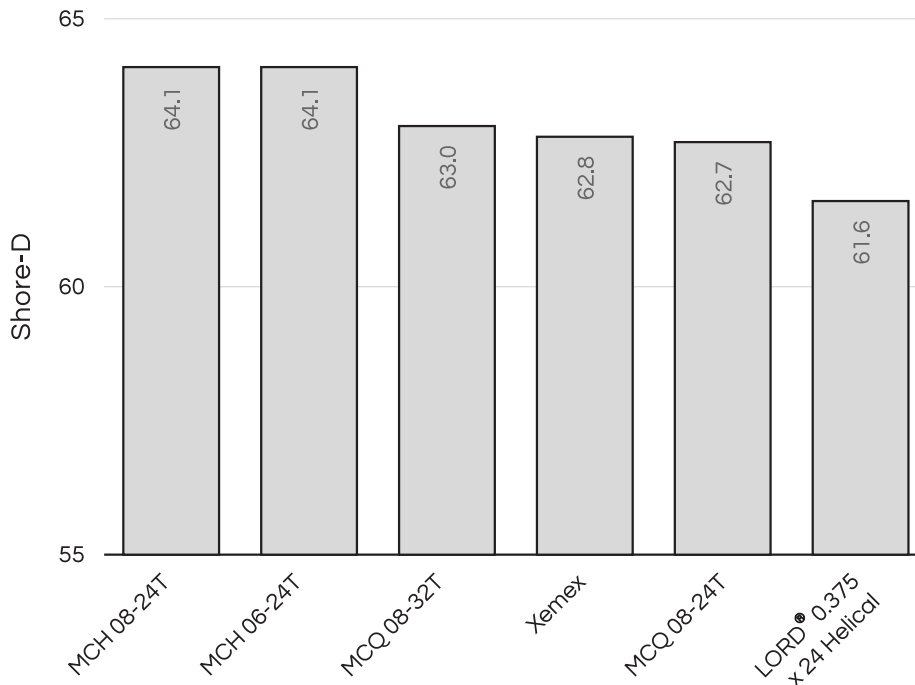


Purpose To compare the mixing performance of the Xemex® Static Mixer with commercially available mixers.

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.

Parker LORD® 406-19GB

Cured Hardness



Mixing Performance The hardness data suggests that Xemex yielded similar mixing performance for Parker LORD® 406-19GB. With a retained volume of only 2.5 mL, Xemex matched 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 406-19GB.

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

Formulation	Type	Mix Ratio**	Mixed** (cP)	Part A**	Part B**	Working Time ** (min)	Keywords
Parker LORD® 406-19GB	Acrylic	4:1	—	100,000 to 300,000	100,000 to 400,000	6 to 10	Glass Bead Filled
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 LORD’s Technical Data Sheet

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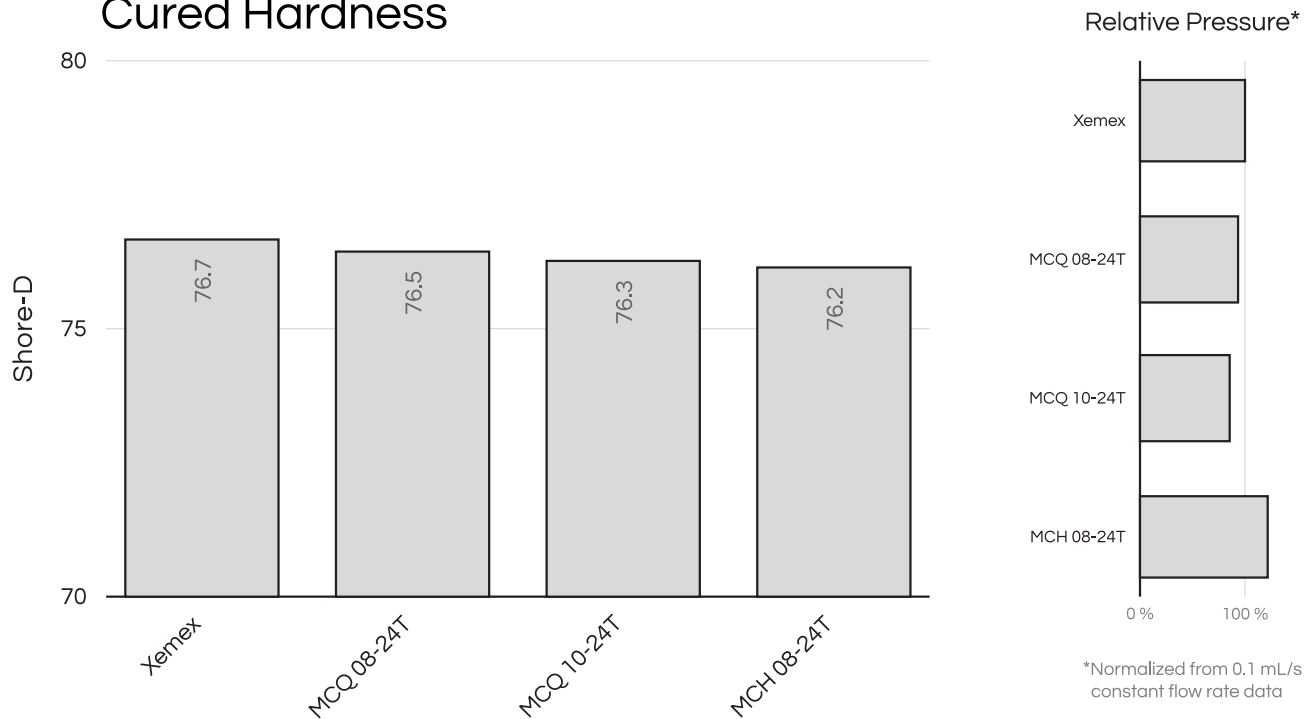


Purpose To compare the mixing performance of the Xemex® Static Mixer with commercially available mixers.

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



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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← Acrylics



Silicones

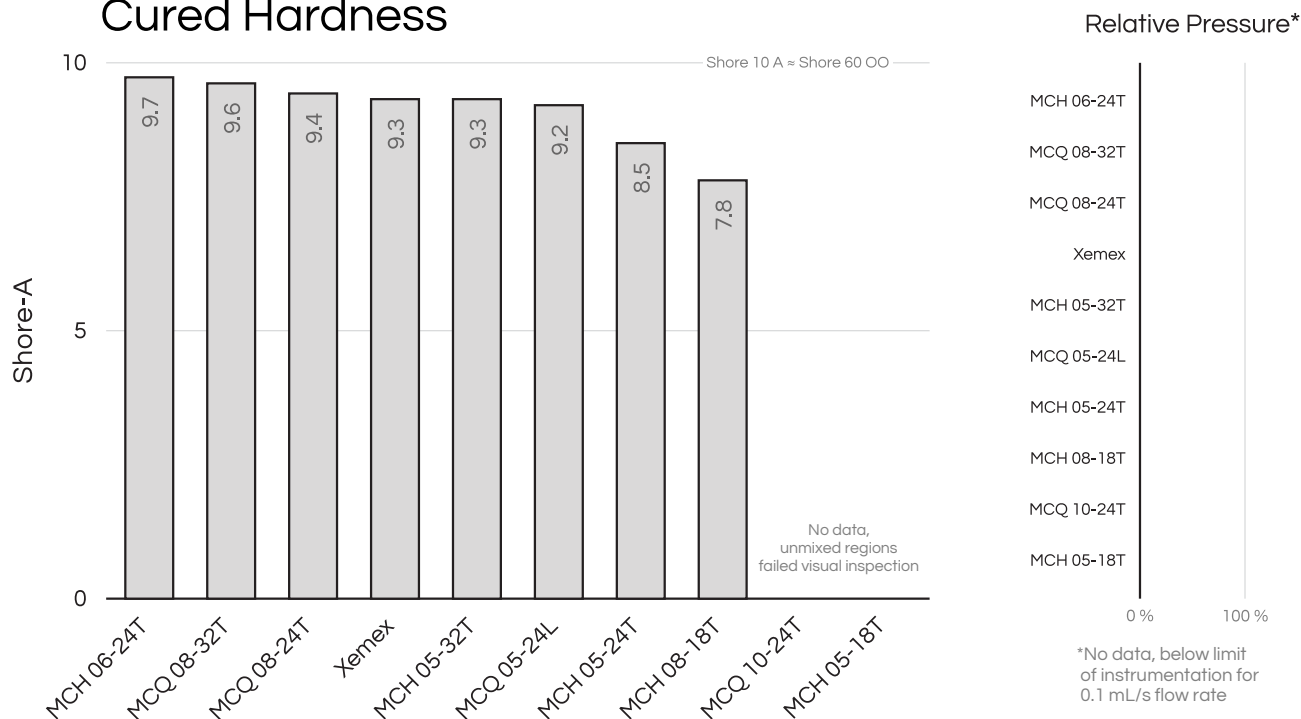


Purpose To compare the mixing performance of the Xemex® Static Mixer with commercially available mixers.

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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