

*All Echo Ultrasonics® couplants have been formulated with operator safety and environmental regulations as a priority.*

	Couplant	Key Benefits	Viscosity	Temperature Range	Corrosion Characteristics	Average cost per ounce (1 & 5-gallon)
<b>Ambient Temperature</b>	<b>UltraSoniX™</b>	<ul style="list-style-type: none"> <li>• Overhead/vertical application (medium and high viscosity)</li> <li>• Slow drying</li> <li>• Fast Wetting</li> <li>• No nitrates, nitrites, glycol ethers or formaldehyde</li> <li>• Glycerin-free</li> <li>• Water soluble, acrylic polymer, least residue</li> </ul>	High Medium	10° to 220°F -12° to 104°C	Very good Meets ASTM F519	\$0.45 \$0.36
	<b>EchoTrack™</b>	<ul style="list-style-type: none"> <li>• Economical high performance</li> <li>• Overhead / vertical application (medium &amp; high viscosity)</li> <li>• Slow drying</li> <li>• Fast wetting</li> <li>• No nitrates, nitrites, glycol ethers or formaldehyde</li> <li>• Glycerin-free</li> <li>• Water soluble, acrylic polymer, least residue</li> </ul>	High Medium	18 to 180°F -8 to 82°C	Very good Meets ASTM F519	\$0.29 \$0.26



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Ambient Temperature	<b>EchoPure™</b>	<ul style="list-style-type: none"> <li>• Broadest temperature range for water-soluble couplants</li> <li>• Very slow drying</li> <li>• Overhead / vertical application</li> <li>• Excellent transducer lubrication</li> </ul>	High Medium Low Fluid	-60 to 350°F -51 to 176°C	Very good	\$0.43 \$0.41
	<b>SoniX™</b>	<ul style="list-style-type: none"> <li>• Salt stable (boiler and corrosion salts, etc.)</li> <li>• Strong lubricious coupling film</li> <li>• Fast Wetting</li> <li>• No nitrates, nitrites, glycol ethers or formaldehyde</li> <li>• Glycerin-free</li> <li>• Water soluble, cellulose based</li> </ul>	High viscosity fluid 40,000 cps	18° to 120°F -7.78° to 50°C	Very good Meets ASTM F519	\$0.29 \$0.22
	<b>ECONOGel™</b>	<ul style="list-style-type: none"> <li>• Most economical UT water-soluble couplant</li> <li>• Glycerin and silicone-free</li> <li>• Completely salt stable</li> </ul>	Medium Viscosity	26° to 120°F -3° to 48°C	Good	\$0.08
	<b>Glycerin</b>	<ul style="list-style-type: none"> <li>• Packaged from USP glycerin, 99+%</li> <li>• High acoustic impedance</li> <li>• Will not harden on equipment</li> <li>• Pumpable fluid</li> <li>• Boiling point 550°F / 290°C</li> <li>• Compatible with plastics</li> </ul>	Low viscosity fluid	65° to 500°F 18° to 260°C	Can be corrosive to carbon steel and aluminum No corrosion effect in most plastics, fiberglass or composites	\$0.31 \$0.25



<b>Powder</b>	<b>EchoMix® Powder</b>	<ul style="list-style-type: none"> <li>• Powder couplant easily mixed in water</li> <li>• Good wetting</li> <li>• Salt resistant, cellulose based</li> <li>• No formaldehyde</li> <li>• Compact for shipping and storage</li> <li>• Water soluble</li> <li>• Operating range can be extended with propylene glycol antifreeze</li> </ul>	Medium gel 23,000 cps Adjustable low to high	32° to 120°F 0° to 50°C	Mild, short term ferrous corrosion inhibition	\$0.11 \$0.08	
	<b>High Temperature</b>	<b>VersaSonic®</b>	<ul style="list-style-type: none"> <li>• Broad operating range</li> <li>• Best performing UT couplant between 300 and 750°F</li> <li>• Fast Response, no wait time</li> <li>• Low smoke / Low toxicity</li> <li>• No char residue</li> </ul>	Fluid, gel and paste	-10° to 750°F -23 to 398°C	Best long-term corrosion protection	\$2.42 (gallon) \$9.75 (tubes)
		<b>EchoTherm™</b>	<ul style="list-style-type: none"> <li>• Most economical ultra-high temperature couplant</li> <li>• To extend operating range, EchoTherm contains a plastic polymer which melts and begins to smoke at 750°F</li> <li>• Leaves plastic residue (char)</li> </ul>	Paste	700° to 1000°F 371 to 538°C	N/A	\$45/ oz (2 -fl. oz. tube)
		<b>EchoTherm Extreme™</b>	<ul style="list-style-type: none"> <li>• Highest performance extreme temperature couplant</li> <li>• Fast Response, no wait time</li> <li>• No plastic polymer</li> <li>• No plastic char residue</li> <li>• Broadest operating range</li> <li>• Low smoke</li> </ul>	Paste	-40° to 1250°F -40 to 675°C	N/A	\$75/ oz (2-fl. oz. tube)



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<b>Pumpable Fluid</b>	<b>Echo 8 HT™</b>	<ul style="list-style-type: none"> <li>• Broadest operating range</li> <li>• Pumpable fluid</li> <li>• Excellent lubricant</li> <li>• Low toxicity / Non-irritating</li> <li>• Auto Ignition is 820°F</li> </ul>	Fluid	-50° to 800°F -45° to 425°C	Excellent	\$4.61
	<b>Echo 4 HT™</b>	<ul style="list-style-type: none"> <li>• Broad operating range</li> <li>• Water soluble</li> <li>• No oil film in water</li> <li>• Low toxicity</li> <li>• Good Surface Wetting</li> <li>• Slow Drying</li> <li>• Contains no glycerin</li> </ul>	Fluid	-70° to 450°F -56° to 230°C	Mild Ferrous. No corrosion effect in most plastics, fiberglass or composites	\$1.05
	<b>VersaSonic® VLV</b>	<ul style="list-style-type: none"> <li>• Broad operating range</li> <li>• Low toxicity</li> <li>• Low smoke</li> </ul>	Fluid	-10° to 750°F -23 to 398°C	Best long-term corrosion protection	\$2.42 (gallon) \$9.75 (tubes)



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