



Liquid Polyurethane Rubber

Molding & Casting Rubbers

Liquid polyurethane rubber is a time-tested material for making molds and formliners to be used on manufactured stone and stone veneer applications. Urethane rubber outperforms most other materials for concrete molds because of the ability to copy any detail, be poured in any thickness, and can come in multiple different versions to provide different properties and speeds. VFI provides a TDI based rubber line to fit any processing need. TDI based polyurethane rubber is an industry standard that has premium properties and less moisture sensitivity than MDI. MDI polyurethane rubber is less expensive than TDI, but provides more variability in pot life, demold times, and property retention at higher hardnesses.

Whether your focus is architectural cast stone, concrete stamping and formliners, or manufactured stone veneer, our extensive industry experience and technical expertise with troubleshooting production problems can help keep your production running smooth. Our core focus is to build long-lasting, productive relationships with our customers by providing timely and efficient help.

Features & Benefits

- ➔ **Superior Physical Properties Ideal for Urethane Rubber Mold Making**
- ➔ **Improved Strength for Better Abrasion Resistance and Longer Lasting Molds**
- ➔ **Captures Excellent Detail and Texture for Higher Quality, Repeated Results**
- ➔ **Outperforms when Casting Pigmented and Colored Concrete**
- ➔ **Increased Rebound Properties Allow for Easier Demolding**
- ➔ **Decreased Moisture Sensitivity for Extended Working Time**
- ➔ **Low Viscosity Eliminates the Need for Use of a Vacuum Chamber**
- ➔ **Stays Cleaner, Longer, Resulting in Less Maintenance and Faster Pulls**
- ➔ **Scalable for Consistent Results in Large or Small Scale Applications**
- ➔ **Faster, More Reliable Production Turnaround from a Trusted Manufacturer**

25 YEARS OF MANUFACTURING HIGH PERFORMANCE POLYMERS

Toll-Free 800-307-9218 | volatilefree.com | info@volatilefree.com

Volatile Free, Inc. is a family owned and operated chemical manufacturer doing business in the Midwest since 1995. Better known as VFI throughout the industry, we custom formulate high performance polymers for some of the most innovative companies in America. While always striving to offer adaptability, durability, and sustainability to our vast portfolio of products, we are recognized for and committed to offering unparalleled customer service.

Contact us to learn about our custom solutions!

Call one of our experts today!
800-307-9218

2100 Series | TDI Molding Rubber

Product Name	Shore A Hardness ASTM D-2240	A:B Mix Ratio by Volume	Pot Life (minutes)	Demold Time (hours)	Specific Volume (cubic in./lb.)	Mixed Viscosity ASTM D-2393	Elongation at Break % ASTM D-412	Tensile Strength ASTM D-412	Die C Tear Strength PLI ASTM D-624	Cured Color
VFI-2123/2124	20 A	1A:2B	20	16	26.92	2300 cps	2200%	500 psi	44 pli	Blue/Neutral
VFI-2130/2139	30 A	1A:1B	20	16	26.92	1600 cps	1550%	450 psi	60 pli	Blue/Neutral
VFI-2133/2134	35 A	1A:1B	20	16	26.92	1600 cps	2300%	550 psi	70 pli	Blue/Neutral
VFI-2140/2149	40 A	1A:1B	20	16	26.92	1500 cps	2100%	600 psi	85 pli	Blue/Neutral
VFI-2143/2144	45 A	1A:1B	15	16	26.66	2200 cps	2000%	550 psi	84 pli	Blue/Neutral
VFI-2153/2154	55 A	1A:1B	15-20	16	26.92	2200 cps	1750%	1150 psi	120 pli	Blue/Neutral
VFI-2163/2164	60 A	1A:1B	10-15	16	26.66	3000 cps	1250%	1400 psi	130 pli	Blue/Neutral
VFI-2173/2174	70 A	1A:1B	20	16	25.68	2800 cps	1050%	1050 psi	180 pli	Blue/Neutral
VFI-2183/2184	80 A	1A:1B	20	16	25.68	4200 cps	850%	1350 psi	205 pli	Blue/Neutral
VFI-2185/2186	80 A	2A:1B	30	16	26.16	2200 cps	1150%	1050 psi	200 pli	Blue/Neutral
VFI-2193/2194	90 A	2A:1B	20	16	25.44	4000 cps	1000%	1550 psi	280 pli	Blue/Neutral

3100 Series | MDI Casting Rubber

Product Name	Shore A Hardness ASTM D-2240	A:B Mix Ratio by Volume	Pot Life (minutes)	Demold Time (hours)	Specific Volume (cubic in./lb.)	Mixed Viscosity ASTM D-2393	Elongation at Break % ASTM D-412	Tensile Strength ASTM D-412	Die C Tear Strength PLI ASTM D-624	Cured Color
VFI-3140/3142	40 A	1A:1B	8	4	26.37	2300 cps	780%	445 psi	45 pli	Green/Neutral
VFI-3141/3143	40 A	1A:1B	30	16	26.37	2300 cps	780%	445 psi	45 pli	Green/Neutral
VFI-3150/3152	50 A	1A:1B	8	4	26.16	2600 cps	835%	730 psi	60 pli	Green/Neutral
VFI-3151/3153	50 A	1A:1B	30	16	26.16	2600 cps	835%	730 psi	60 pli	Green/Neutral
VFI-3160/3162	60 A	1A:2B	8	4	26.03	2800 cps	825%	1050 psi	95 pli	Green/Neutral
VFI-3161/3163	60 A	1A:2B	30	16	26.03	2800 cps	825%	1050 psi	95 pli	Green/Neutral
VFI-3170/3172	70 A	1A:2B	8	4	26.04	800 cps	670%	1100 psi	135 pli	Green/Neutral
VFI-3171/3173	70 A	1A:2B	30	16	26.04	800 cps	670%	1100 psi	135 pli	Green/Neutral
VFI-3180/3182	80 A	1A:2B	8	4	25.81	1000 cps	690%	1430 psi	180 pli	Green/Neutral
VFI-3181/3183	80 A	1A:2B	30	16	25.81	1000 cps	690%	1430 psi	180 pli	Green/Neutral



VOLATILEFREE.COM



Phone 262-787-0400 | Toll-Free 800-307-9218 | Fax 262-787-0500 | 19500 Janacek Court | Brookfield, WI 53045 | info@volatilefree.com

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