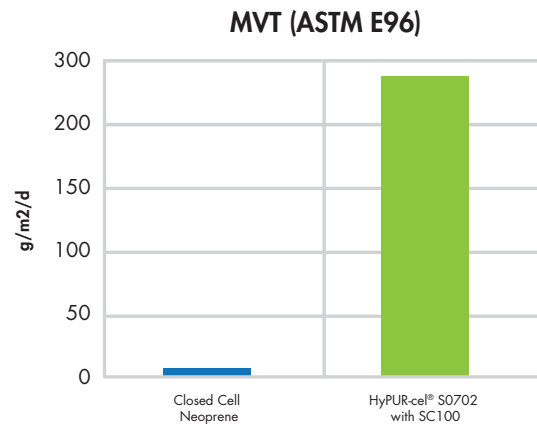


SC100 (surface coat) modifies the surface characteristics of a substrate. Applied in full coverage, this water-based, latex-free formulation mimics the outer skin inherent on some foam materials. SC100 does not occlude moisture vapor transfer, allowing continued breathability of the base substrate. This reduces heat build-up and moisture which ensures overall comfort.

SC100 can be directly cast on a wide range of HyPUR-cel[®] polyurethane foam in continuous roll-to-roll form at various widths. To ensure cleanliness, SC100 satisfies the AATCC 61 requirements for 2A wash testing. The SC100 coating allows the substrate breathability along with excellent durability, enhanced strength, improved elasticity and will benefit many performance applications.

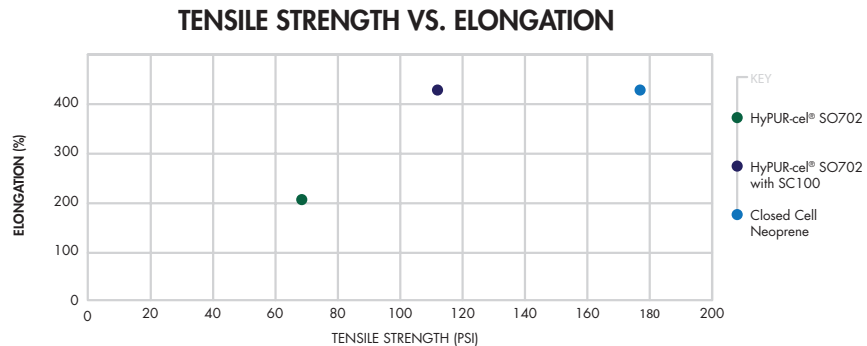
MAINTAINED AIR FLOW

Applied to an open-cell polyurethane foam, SC100 enables MVT properties to remain. This desirable breathability characteristic enables heat dissipation and minimizes moisture build-up.



IMPROVED TENSILE PROPERTIES

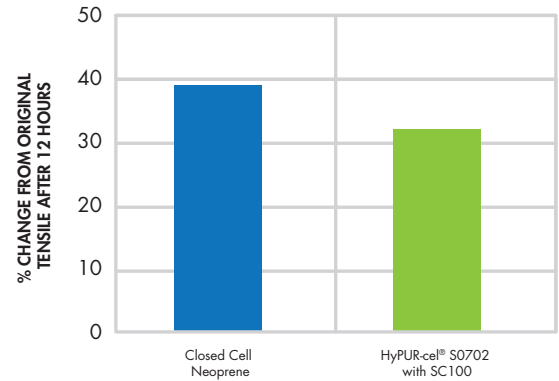
As measured on our HyPUR-cel[®] engineered (open-cell) polyurethane foam, the SC100 formulation improves strength by nearly 60% while maintaining the original elongation performance. This benefit further highlights the potential end use performance enhancements of existing and future applications, especially when compared to neoprene.



IMPROVED TENSILE STRESS RELAXATION

SC100 improves the original properties of how the base substrate responds to repeated use/stretching. Products relying on consistent elasticity performance, such as orthopedic wraps and supports, benefit from minimized slip/fit issues with SC100, when compared to uncoated neoprene.

TENSILE STRESS RELAXATION CHANGE (%)



Characteristics of this highly engineered and thermoformable product are excellent for use in orthopedic wraps/braces, as a latex-free, neoprene alternative. Other applications include medical, automotive, recreational, outdoor, safety or padding/cushioning applications where a strong, elastic, breathable and durable surface is desired.

SUR-FEX® SC100 TYPICAL PROPERTIES

Polymer		Polyurethane		
Physical Property	Test Method	Results		
2A Wash Test	AATCC-61	Pass		
Static Coefficient of Friction	ASTM D1894	.363		
Kinetic Coefficient of Friction	ASTM D1894	.247		
Examples Properties on Various Substrates				
Substrate	Thickness Tested (in)	Hydrostatic Head (psi) AATCC 127	Air Flow (cfm) ASTM D737	MVT (g/M2/D) ASTM E96 Procedure B
HyPUR-cel® S0702	.094	.511	.333	351.4
HyPUR-cel® T1015	.104	.442	.07	317.3
HyPUR-cel® V12200	.120	.441	.249	330.9

Product availability

- Full coverage up to 66" width
- Direct cast
- Continuous roll-to-roll

Characteristics

- Excellent durability
- Enhanced tensile strength
- Abrasion resistant
- Washable
- Breathable
- Enhances substrate COF
- Reduces tensile stress relaxation