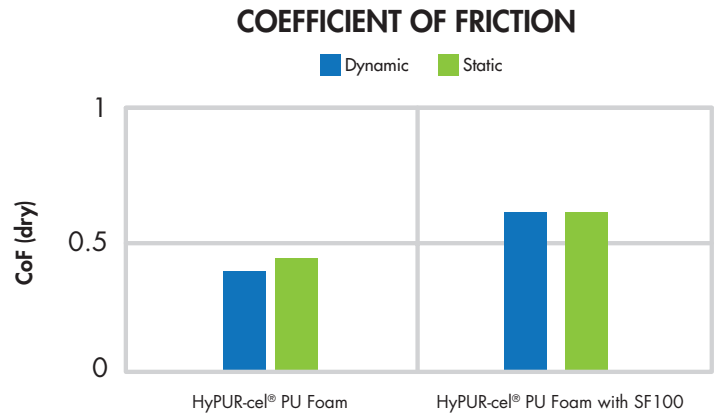


SF100 is a microcellular open-cell frothed coating that is soft to the touch while maintaining flexibility. SF100 provides unique and functional benefits including enhanced coefficient of friction, wash durability, thermoformability, and no off-gassing. The open-cell construction of this water-based formulation allows breathability of the substrates, which minimizes undesired heat retention.

SF100 can be directly cast on a broad range of flexible substrates (foam, nonwoven, film, foil, etc.) up to a thickness of 0.020" in continuous roll-to-roll form at a variety of full-coverage widths. This allows for thinner layers of material that cannot be achieved through traditional splitting or skiving methods and eliminates the need for an additional lamination process. SF100 satisfies the AATCC 61 requirements for 2A wash testing and can be easily maintained to ensure cleanliness.

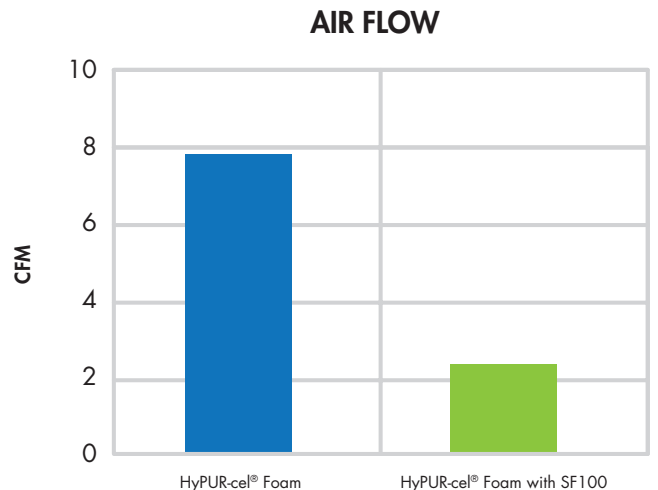
ENHANCED COEFFICIENT OF FRICTION (CoF)

SF100 enhances the surface CoF on the entire substrate surface or in specific, targeted areas with minimal impact to the other desirable properties.

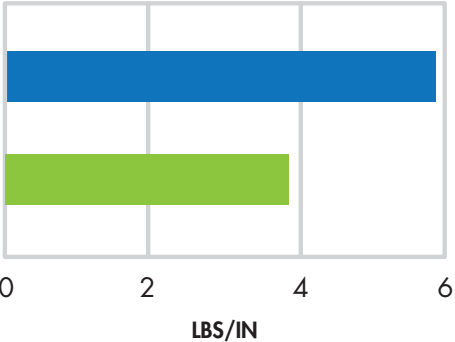


MAINTAINED BREATHABILITY

The microcellular open structure of SF100 does not occlude air flow, so the breathability of the base substrate remains. This unique feature reduces heat build-up and ensures comfort.



50% ELONGATION LOAD



RETAINED STRETCH PROPERTIES

SF100 is a flexible polyurethane formulation that does not significantly impact the stretch properties of the base substrate.

HyPUR-cel® PU Foam with SF100

HyPUR-cel® PU Foam

The physical properties of SF100 make it an ideal product for use in medical, apparel, cosmetics, footwear, equestrian, padding or skin contact applications*. When functional cushioning is desired the aesthetic and physical characteristics of the base materials are not compromised.

*Based on FDA 510(k) predicate device

SUR-FEX® SF100 TYPICAL PROPERTIES

Polymer	Polyurethane	
Physical Property	Test Method	Results
2A Wash Test	AATCC-61	Pass
Water Absorbency	AATCC-79	> 30 minutes
Static Coefficient of Friction	ASTM D1894	.783
Kinetic Coefficient of Friction	ASTM D1894	.793

Example Properties on Various Substrates

Substrate	Total Thickness Tested (in)	Air Flow (cfm) ASTM D737	MVT (g/M ² /D) ASTM E96 Procedure B
HyPUR-cel® S0702	.137	3.2	420.3
HyPUR-cel® S1005	.136	2.9	385.9
HyPUR-cel® T1015	.114	2.7	430.2
HyPUR-cel® I1815	.139	3.2	366.1

<p>Product availability</p> <ul style="list-style-type: none"> • Full coverage up to 66" width • Direct cast • Thickness up to 0.020" • Broad range of flexible substrates (foam, nonwoven, film, foil, etc.) • Continuous roll-to-roll 	<p>Characteristics</p> <ul style="list-style-type: none"> • Unique soft feel • Extremely flexible • Washable • Thermoformable • Breathable • Enhances substrate COF • Does not significantly alter stretch of substrate • Cushioning
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