Tuflex Force Premium Engineered Sports Flooring

TECHNICAL DATA

PRODUCT DESCRIPTION

Finish & Appearance	Smooth with No Factory Finish
Nominal Dimensions [1]	25 3/4" (65.4 cm) x 25 3/4" (65.4 cm) x 3/8" (9 mm) Interlocking Tiles @ 4.6046 sq. ft. 27" (68.6 cm) x 27" (68.6 cm) x 3/8" (9 mm) Square Tiles @ 5.0625 sq. ft.

PRODUCT PERFORMANCE PROPERTIES

ASTM E648 (NFPA 253) – Critical Radiant Flux	Class I, ≥ 0.45 W/cm^2
ASTM E662 (NFPA 258) – Smoke Density	Passes, ≤ 450
ASTM D2047 – Static Coefficient of Friction [2]	≥ 0.50
ASTM F970 – Static Load Resistance [3]	Passes, < 0.005" Indentation @ 250 psi Passes, < 0.005" Indentation @ 1,100 psi Modified
ASTM F925 – Chemical Resistance [4]	Excellent, Additional Chemical List available via chart
ASTM F2772 – Athletic Performance Properties of Indoor Sports Floor Systems	
ASTM F2569 – Force Reduction	Passes, 10.8%, Class 1
ASTM F2157 – Vertical Deformation	Passes, Class B
ASTM F2117 – Ball Rebound	Passes, 97.5%
ASTM E303 – Surface Friction	Passes, 93
ASTM G21 – Resistance to Fungi	Excellent
ASTM D3389 – Abrasion Resistance	Excellent, ≤ 1 g loss (after 1000 cycles)
ASTM F1514 – Heat Stability	ΔE ≤ 8
ASTM F1515 – Light Stability	ΔE ≤ 8
ASTM D2240 – Durometer Hardness Indentation	≥ 85 Shore A
ASTM C518 – Thermal Resistance, R	Excellent, 0.178 F ft^{2}h/Btu

ACOUSTICAL PERFORMANCE PROPERTIES [5]

6 INCH CONCRETE SLAB	
ASTM E2179 – Sound Reduction	ΔIIC 9
ASTM E492 – impact Insulation Class	IIC 52
ASTM E90 – Sound Transmission Class	STC 52
6 INCH CONCRETE SLAB / CEILING ASSEMBLY	
ASTM E492 – Impact Insulation Class	IIC 63
ASTM E90 – Sound Transmission Class	STC 67

PRODUCT INSTALLATION & WARRANTY INFORMATION

Lot Controlled	Yes

Suitable for In Floor Radiant Heat	Yes
Heat Weldable / Required	Not Recommended
Indoor / Outdoor Suitability	Indoor Use Only
Service & Storage Temperature Range [6]	60° - 85° F
Recommended Adhesives [7]	Excelsior PS-525 Modified Pressure Sensitive Adhesive Excelsior U-705 Urethane Adhesive Excelsior EW-710 Urethane Enhanced Two-Part Epoxy Adhesive
Product Warranty [8]	3 Year Exposure to Ice Skates 10 Year Limited Commercial Warranty
Product Limitations	Material in areas where free weights and/or dumbbells over 50 lbs. will be used is recommended to be fully glued. Interlocking material in applications that will be maintained with ride on auto scrubbing equipment, exposed to heavy rolling loads such as expandable bleachers, etc. must be fully adhered to prevent movement under the weight and force of the loads. Exposure to Ice Skates and/or Metal Sports Cleats Warranty is that the product will not wear thru the wear layer, it does not include a warranty that it will not show signs of exposure to these items such as visual marks, cuts, punctures, and/or indentation from the Skates or Cleats in these applications. In these applications it is more about protecting the substrate, skate blades, and/or the cleats themselves to hinder their performance.

ATTRIBUTES, CERTIFICATIONS, & REGULATORY INFORMATION

- Manufactured in Tuscumbia, Alabama
- Health Product Declaration (HPD) Available
- Contributes to LEED v4/4.1 Requirements
- Achieved NSF/ANSI 332 Level 1 Certification
- Achieved FloorScore Certification
- Achieved Certified 24% Pre-Consumer Recycled Content
- Achieved USDA Biopreferred Certification for 29% Biobased Content
- Meets California Department of Public Health V1.2 (CA Section 01350) requirements
- Meets Collaborative for High Performance Schools (CHPS) requirements
- Red List Chemical Free
- Contains Pre-Consumer Recycled Content
- Qualifies for American Made Products Acts and/or Requirements

SUPPORT & ADDITIONAL DOCUMENTATION

Product Support Phone & Email	(800) 633 – 3151 / info@flexcofloors.com
Technical Support Phone & Email	(844) 393 – 4044 / solutions@rhctechnical.com
Product Technical Documentation	www.flexcofloors.com
Associated or Related Documentation	Excelsior PS-525 Modified Pressure Sensitive Adhesive Excelsior U-705 Urethane Adhesive Excelsior EW-710 Urethane Enhanced Two-Part Epoxy Adhesive Referenced Standards within Technical Documents Technical Bulletin

	Tuflex Force Premium Engineered Sports Flooring Installation Tuflex Force Premium Engineered Sports Flooring Care & Maintenance Flexco Products Warranty

[1] Nominal Dimensions are the marketed dimensions of the product, tolerances are allowed in the manufacturing process and our tolerance range is what is allowed by the ASTM documentation overseeing the product construction.

[2] ADA Standards for Accessible Design state the floor surface shall be stable, firm and slip resistant. Our test results utilize the James Machine as described in ASTM D2047 and as described in UL410 for floor covering materials (FCM) utilizing a leather foot under dry conditions. Maintenance processes and commonly utilized site applied finishes, polishes, and other sealers to maintain resilient flooring products will change the walking surface and ultimately the Static Coefficient of Friction.

[3] ASTM F970 testing at loads above 250 psi is outside the scope of the test method and is considered modified. Modification to the testing process for us is the additional load utilizing the same foot as described in the test method by ASTM. Since testing is conducted on flooring product alone, our stated results do not take into consideration chosen adhesive, any utilized underlayments and/or substrates or subfloors. These results should not be construed as an indicator of installed flooring performance.

[4] ASTM F925 testing is utilized to ensure flooring materials will stand up to certain household standard chemistries. Additional chemical resistance testing performed using this test method is for informational and guidance purposes only. Proper maintenance will influence chemical resistance, but the best defense against a negative effect is to clean the drop/spill from the flooring surface immediately.

[5] Acoustical testing information is provided for information and guidance when selecting flooring materials. Testing is conducted on flooring products with or without underlayments and over laboratory substrates. These results should not be construed as an indicator of installed flooring performance and results.

[6] See installation documents for full installation details regarding approved substrates, job conditions and acclimation procedures.

[7] Recommended adhesives listed are recommended to be used to obtain the full listed system warranty that includes a bond performance warranty. Material installed with adhesives other than those listed here or an approved option in writing will only have a product manufacturing and wear warranty, no performance or bond warranty.

[8] See product warranty for full details regarding limitations and warranty coverage.

The contents contained within this Technical Data Sheet (TDS) may be utilized or copied into another projected related document, but this original document will remain in effect at the time of product installation, this TDS shall not be supplemented or replaced by the resulting project documentation. **Any alterations to the wording or requirements contained in or derived from this document shall void all related warranties.**

See installation information and documents for full installation details regarding substrates, job site conditions, & acclimation procedures. The intent of this document is to provide technical and performance properties of the mentioned adhesive as well as define the intended method of installation for the products in which the adhesive is approved for use. Any installation guidelines are to be considered as a starting point at a minimum for a successful installation. We rely on the expertise and professionals that are installing the products to adjust based on site conditions. Anything that appears to be a link, is and leads to additional information if necessary or provides a means of contact in the event there are any additional questions. Prior to acceptance of this document refer to the product website to confirm that you have the most current revision.

These products are intended for installation by professionals, prior to use the user must determine the suitability of our products for the intended use, and the user alone assumes all risks and liability.