

Product Specification - InstaTurf® ShearForce10™ Hybrid Turf Instant Armor Mat

The hybrid turf instant armoring permanent erosion control mat shall provide the immediate finished look of natural grass along with the high flow erosion protection of large rock riprap, while establishing permanently reinforced vegetative cover. The mat shall consist of a UV stabilized, monolithic polyethylene simulated turf structure with approximate 7/16 inch by 5/8 inch rectangular apertures, backed with an engineered lightweight polyester geotextile. The geotextile must be dense enough to retain fine soil particles and seed, yet open enough to allow seedling emergence. The mat shall have an unvegetated permissible shear stress rating, as determined by ASTM D6460 large-scale channel testing, of 10 lbs/sf or greater for immediate as well as long-term erosion protection against high shear stress water flow. The hybrid turf instant armoring mat shall have the following characteristics and dimensions, and meet or exceed the minimum physical and performance properties as specified below.

Color: Grass green Roll Sizes: 3ft x 45ft – 135 sf, 6ft x 45ft - 270 sf Roll Weights: Approx. 49 lbs/99 lbs

InstaTurf ShearForce10 Index and P	erformance Prope	rties	
Index Properties	Test Method	Units	Values
Mass Per Unit Area	ASTM D6566	lbs/sy	3.3
Tensile Strength	ASTM D6818	MD (lbs/ft)	363
		XD (lbs/ft)	164
Elongation	ASTM D6818	MD (%)	22
		XD (%)	37
Thickness	ASTM D6525	In	1.0
Ground Cover	ASTM D6567	%	85.9
UV Stability	ASTM D4355	% Tensile Retention @ 1,000 hrs	93.5
Performance Properties & Typical D	esign Values		
Manning's n Roughness Coefficient	ASTM D6460	<.5 ft flow depth	0.04
		.5 - 1.0 ft flow depth	0.03
		>1.0 ft flow depth	0.025
Permissible Shear Stress	ASTM D6460	Unvegetated (lbs/sf) - Cohesive Soils	12
	Recommended	Unvegetated (lbs/sf) - Non-cohesive Soils	10
Permissible Velocity	ASTM D6460	Unvegetated (ft/sec) - Cohesive Soils	25
	Recommended	Unvegetated (ft/sec) - Non-cohesive Soils	20

InstaTurf® SharFore* products are manufactured by GrassWorx LLC, 2381 Centerline Industrial Drive, St Louis, MO 63146. Insta-Turf.com

Available at: 🛛 💋



Call your local Ferguson Waterworks representative for more information.