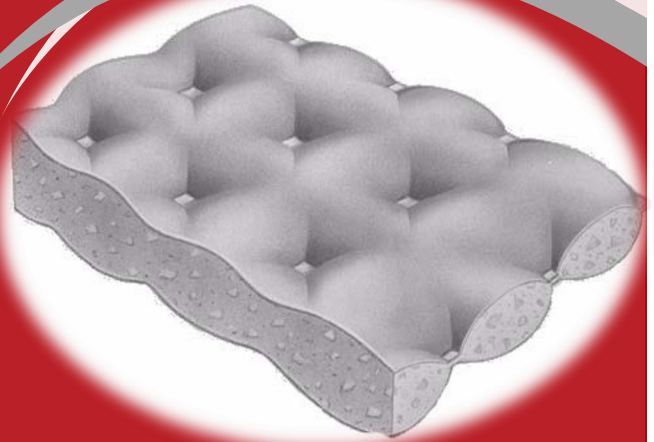


ARMORFORM[®]

YOUR SOLUTION TO PERMANENT HARD ARMOR EROSION CONTROL

Filter Point Mat

- **Filter Point Mat (FPM)** is an erosion resistant, permeable concrete lining formed with a double-layer woven fabric, joined together by interwoven, filter points (drains). Once pumped, the cobbled surface and relatively high coefficient of friction act to reduce velocity and wave run-up. The filter points provide for the relief of hydrostatic uplift pressure, increasing the system's stability.
- **Filter Point Mat (FPM)** form a lining of average thickness and specified weight to provide strength and erosion protection to resist the calculated tractive forces. The design criterion for selection of lining thickness is the same as that used to determine the thickness of conventional concrete slope paving. FPM is custom fabricated into multiple mill width panels, designed to fit actual site dimensions and topography.



ARMORFORM[®]
Fabric Formed Hard Armoring

DESIGN CONSIDERATIONS

- FPM is used where velocities are low, bedload and ice formations are light and a roughness coefficient of $N = 0.025$ to 0.030 is acceptable.
- FPM is used where wave action is light.
- FPM is ideal for underwater placement.
- FPM should be installed on engineered slopes

APPLICATIONS

- Bridge Abutments
- Storm Sewer Outfalls
- Channel Lining
- Pond Lining
- Shoreline Revetments
- Spillway/Weir Structures
- Embankments

INDUSTRIES

- Highways/Bridges
- Ports/Harbors
- Dams/Levees
- Rivers/Canals
- Flood Control
- Coastal/Marine
- Industrial Waste Landfill
- Mining
- Oil/Gas Pipeline
- Power Generation

FILTER POINT MAT TECHNICAL DATA

FILTER POINT MAT (FPM)				
STYLE	SPACING	AVERAGE THICKNESS	UNIT WEIGHT	CONCRETE COVERAGE
5" FPM	5"	2.2"	26 lbs./ft ²	115 sq. ft./cy
8" FPM	8"	4.0"	47 lbs./ft ²	73 sq. ft./cy
10" FPM	10"	6.0"	70 lbs./ft ²	49 sq. ft./cy
12" FPM	12"	8.0"	93 lbs./ft ²	36 sq. ft./cy

MATERIAL PROPERTY – ARMORFORM FABRICS			
PROPERTY	TEST	UNITS	VALUE
PHYSICAL			
Composition of Yarns	-	-	Polyester
Mass Per Unit Area (Double-Layer)	ASTM D 5261	oz/yd ²	14
Thickness (Single-Layer)	ASTM D 5199	mils	27
Mill Width (Woven)		inch	72
MECHANICAL			
Wide-Width Strip Tensile Strength - WARP FILL	ASTM D 4595	lbs./inch	340/270
Elongation at Break - WARP FILL - Max.		%	12/12
Trapezoidal Tear Strength - WARP FILL	ASTM D 4533	lbs.	180/170
Grab Tensile Strength	ASTM D4632	lbf	364/310
Grab Tensile Elongation		%	25/21
CBR Puncture Strength	ASTM D 6241	lbs.	1575
HYDRAULIC			
Apparent Opening Size (AOS) ³	ASTM D 4751	U.S. Standard (mm)	20
Flow Rate	ASTM D 4491	gal/min/ft ²	125