ARMORFORM ®

YOUR SOLUTION TO PERMANENT HARD ARMOR EROSION CONTROL

Articulating Block Mat

- Articulating Block Mat (ABM) is formed with a double-layer woven fabric, joined together into a matrix of rectangular compartments, each separated by a narrow perimeter of interwoven fabric and containing interconnecting high strength revetment cables. Similar to precast block mats, once pumped the ABM is designed to permit differential settling and block articulation.
- Articulating Block Mat (ABM) form a mattress of individual blocks in a bonded block pattern. The revetment cables become embedded in the blocks to tie the blocks together and resist tension in all directions. Patented separate cable duct design assures that the revetment cables will be positioned securely in the center of each block. Relief of hydrostatic uplift pressure is provided through the narrow perimeter of interwoven fabric after the grout has hardened. ABM is custom fabricated into multiple mill width panels, designed to fit the actual site dimensions and topography.





DESIGN CONSIDERATIONS

- ABM is used where velocities are low to high, bedload and ice formations are light to heavy and a roughness coefficient of N = 0.045 to 0.050 is acceptable.
- ABM is used where wave action is light to heavy.
- ABM is ideal for underwater placement.
- ABM is recommended where subgrade deformation is expected.

APPLICATIONS

- Bridge Abutments
- Storm Sewer Outfalls
- Channel Lining
- Levee Protection
- Dike Groin
- Spillway/Weirs
- Pipeline Shallow Cover

INDUSTRIES

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

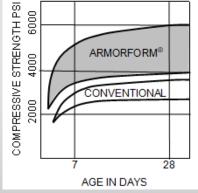
ARTICULATING BLOCK MAT TECHNICAL DATA

| ARTICULATING BLOCK MAT(ABM) | | | | | |
|-----------------------------|----------------------|-----------------|----------------|----------------------|--|
| STYLE | NOMINAL THICKNESS | BLOCK WEIGHT | UNIT WEIGHT | CONCRETE COVERAGE | |
| 3" ABM | 20" x 11" x 3" | 52 lbs. | 34 lbs./ft² | 97 sq. ft./cy | |
| 4" ABM | 20" x 14" x 4" | 88 lbs. | 45 lbs./ft² | 73 sq. ft./cy | |
| 6" ABM | 20" x 20" x 6" | 189 lbs. | 68 lbs./ft² | 49 sq. ft./cy | |
| 8" ABM | 30" x 22" x 8" | 416 lbs. | 91 lbs./ft² | 36 sq. ft./cy | |
| 10" ABM | 30" x 26" x 10" | 614 lbs. | 113 lbs./ft² | 28 sq. ft./cy | |
| 12" ABM | 30" x 28" x 12" | 793 lbs. | 136 lbs./ft² | 22 sq. ft./cy | |

A fluid, high-strength, concrete is utilized in the construction of all

ARMORFORM® revetments. As an aid to pumpability, a pozzolan grade fly ash may be substituted for up to 25% of the cement. Mixes designed with 5% to 8% air content will have improved pumpability and resistance to freeze-thaw. A retarding admixture may be used in hot weather.

Excess mixing water expelled through the permeable ARMORFORM® fabric will reduce the volume of fluid structural grout from 27 cu. ft. to



approximately 25 cu. ft. of hardened grout and also reduce the water/cement ratio from approximately 0.7 to approximately 0.4.

Fine aggregate concrete consistency should be in the 9-11 second range when passed through the 3/4" orifice of the standard flow cone described in ASTM C-939-93. Tests utilizing a concrete slump cone are not appropriate.

| TYPICAL RANGE OF MIX PROPORTIONS | | | | |
|----------------------------------|---------------------------------|------------------------------|--|--|
| Material | Mix Proportions lbs./cu. yd. | After Placement lbs./cu. yd. | | |
| Cement | 750-850 | 810~920 | | |
| Sand | 2030~2120 | 2195~2290 | | |
| Water | 485-555 | 360~430 | | |
| Fly Ash | Up to 25% of Cement | | | |









LOCATIONS & CONTACT INFO

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SOLUTIONS WE SUPPLY

GEOSYNTHETICS

Filter Fabrics

Stabilization Fabrics

Geogrids

- Road Grids
- Wall Grids
- Slope Stabilization

Specialty Fabrics

Composite Geomembranes

• GCLs, PVC, HDPE, LLDPE, EPDM, Granular Bentonite

SEDIMENT CONTROL

Inlet Protection

· Grated Inlet, Curb Inlet, Area Inlet Protection

Ditch Checks

- · Triangle Silt Dike
- GeoRidge

Perimeter Protection

- · High and Low-Porosity Silt Fence, Straw Wattles, Silt Socks
- Safety Fence

Flocculants & Water Treatment

Polymer-Based & Natural Flocculants

Sediment Basin Skimmers

Dewatering Bags

Trackout Control

- FODS
- Rumble Grates

Turbidity Curtains

EROSION CONTROL

Basic Hydraulically Applied Mulches

- Wood
- Paper
- Blends
- Straw

High-Performance Hydraulically Applied Products

- FGM
- Additives & Tackifiers

Temporary Erosion Control Blankets

- Coir & Jute Mat/Nettings
- Short-Term ECBs
- Extended-Term ECBs

Permanent Erosion Control Blankets

- Turf Reinforcement Mats
- HP-TRMs
- Anchor Reinforced Vegetation System

Structural BMPs

- Transition Mats
- Geoweb Cellular Confinement
- Composite Vegetated Armor System
- Flex MSE Vegetated Wall System
- Articulated Concrete Block
- Gabions
- · Grout-Filled Geotextile Mats

Vegetation Establishment

- · Native Seed & Turf Seed
- Fertilizers
- · Organic Soil Additives
- Stratavault Soil Cells

STORMWATER MANAGEMENT

Water Quality

- Inlet Filter Boxes
- Pre-Treatment Chamber
- Nutrient Separating Baffle Boxes
- · High-Flow Biofiltration Media
- · Hydrodynamic Separators
- Stratavault

Water Ouantity

- · Modular Underground Storage Systems
- Chamber Detention Systems

Drainage

- HDPE Swale Liner
- Pipe & Fittings
- · Drainage Composites
- Strip Drain

Inlet Structures

- PVC
- · Drain Basins, In-Line Drains
- Landscape

Permeable Pavers

- Permeable Articulating Concrete Block
- Grass Pavers
- · Gravel Pavers
- Concrete Pavers

SPECIALTY

Natural & Synthetic Coir Fiber Logs **Vegetated Reinforced Soil Slopes** Soil Anchors **Root Barrier System** AquaBlok Muscle Wall

We are full line distributors of construction materials for all project types. Contact us for assistance with a project. From specification and development to installation and completion, we're here to help with all of your site solution needs.