Flexamat® Provides Permanent Erosion Control Solutions for a Wide Range of Applications Including:

- AIRPORTS
- DOT ROADSIDE
- DRIVABLE SURFACES
- ENERGY SECTOR
- INLETS/OUTLETS
- LANDFILL/MINE RECLAMATION
- SHORELINE
- STREAM AND RIVERBANK
Motz Enterprises, Inc. is the manufacturer of Flexamat®. The company has been in business for over 30 years and is headquartered in Cincinnati, Ohio. **Flexamat®** is sold throughout the United States and Canada with material available locally in most areas.

We take pride in our performance and specifying the right product for the right application. **Flexamat®** is an effective, long term solution. We look forward to working with you.
ABOUT Flexamat®

Permanent Erosion Control

Flexamat® is a permanent erosion control mat utilized for stabilizing slopes, channels, low water crossings, inlet/outlet protection, and shorelines. Tied Concrete Block Mat is a generic term for Flexamat®. It consists of concrete blocks (6.5” x 6.5” with a 2.25” profile) locked together and embedded into a high strength geogrid. There is 1.5” spacing between the blocks that gives the mat flexibility and allows for optional vegetation growth. The mat is packaged in rolls, making transporting and installing Flexamat® efficient. It is manufactured with various underlayments, determined by onsite conditions.

Vegetated Solution

Flexamat® offers permanent, hard armor protection, with a natural vegetation. Flexamat® may be mowed over with commercial mowing equipment or left to grow wild. Besides grass, there are many other types of native plant species that can be planted to grow within the mat. For example, Willow stakes and other native plugs can be planted within Flexamat®.

Work With Nature, Not Against

Incorporating perennial vegetation into storm water treatment plans will encourage the benefits of phytoremediation which is the direct use of living green plants for the removal, degradation or containment of contaminants. The establishment of perennial vegetation increases infiltration of storm water runoff into the soil, increased removal of pollutants found in road and parking lots runoff (oils & grease, metals, break dust salt, garbage, nutrients) through filtration and phytoremediation. The perennial vegetation also reduces or eliminates the thermal impacts to storm water runoff by shading the concrete blocks from sunlight and aiding in infiltration and filtering of the runoff, unlike rip rap or other hard armor alternatives.

BENEFITS OF Flexamat®

HIGH PERFORMANCE
Un-vegetated capabilities, 30ft./sec. & 24 PSF

EASY MAINTENANCE
Safe to mow over

FAST INSTALLATION
Roll design makes installation efficient

SIMPLE INSTALLATION
Personnel can install with their own equipment

AESTHETICALLY PLEASING
Conforms to landscape

IMPROVES SAFETY
Safe for motorist to drive across

ENVIRONMENTALLY FRIENDLY
Safe for pedestrians and wildlife to walk across

REDUCES CONSTRUCTION COSTS
Low material cost, less labor and faster project completion.

DISCOURAGES GRAFFITI
Vegetated solution rather than poured in place concrete

IMPROVES WATER QUALITY
Offers phytoremediation and reduces thermal impact

LOW-IMPACT DEVELOPMENT (LID)
Helps achieve MS4 permit requirements

web: www.flexamat.com     email: info@flexamat.com
Three months after installation.

One year after installation.

Departments of Transportation Roadways Protection

web: www.flexamat.com     email: info@flexamat.com
Outlet armored with Flexamat®, 3 years after installation.

Outlet with failing Rip Rap.

Armored inlet.

Griffin, GA - Repaired outlet.

Griffin, GA - Eroded outlet.

Inlet & Outlet Erosion Protection

Contact Us Today! 513-772-6689
60' wide letdown just installed.

60' wide letdown 4 years after installation.
Exposed high pressure gas pipeline.
Flood Control

One year after installation.

Contact Us Today! 513-772-6689
Canals

Three months after installation.
Gas powered driver installation.

Loading anchor with Jack Jaw®

Cutting excess cable.
Fully vegetated Flexamat® with native littorals thriving.

Streambank Protection

web: www.flexamat.com     email: info@flexamat.com
Gravel infill for residential driveway.
Access road to high school stadium.
Flexamat® Project Check List:

Here are some suggestions for a successful Flexamat® installation:

Decide which Flexamat® option is best for the site.

1. Curlex II®
2. Flexamat® PLUS
3. Geotextile (10 oz.)

- Order Flexamat® (may need up to 5-7% waste factor)
- Have installation crew watch videos on Flexamat®’s YouTube Channel
- Plan staging area for Flexamat®
- Prepare work prior to installation – remove stumps, rocks, soil, etc – for smooth surface
- Seed and fertilizer, this needs to be done prior to installation of Flexamat®
- Clevis shackle of appropriate weight rating. (For connecting to D-ring on bucket.)
- Swivel and rigging with latched sling hooks of appropriate weight rating.
- 3-4 moving hooks (Used for adjusting Flexamat® as needed during installation.)
- Lifting straps for large rolls.
- Smooth (toothless) bucket on excavator (refer to install videos)
- May be needed - #3 rebar 18” U-Anchors or Cross Plate Percussion Anchors
- May be needed - Curlex II® or Recyclex® TRM for seams and edges
- Gloves
- Rakes & Shovels
- Clevis
- Swivel and rigging w/ latched sling hooks
- Chop saw if cutting is required
**HYDRAULIC DATA**

**Flume Testing**
Non-vegetated testing on 30% slope over sandy loam soil: Permissible Shear = 24+ PSF.
Non-vegetated testing on 20% slope over loam soil: Velocity = 30+ Ft/Sec

**ROLLS**

**CORE AND NO-CORE**

Flexamat® Standard is delivered without a core. Cores can be added.

- Standard Flexamat® (no core)
- Flexamat® (with core added)
### General Composition of Materials

<table>
<thead>
<tr>
<th>Material</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blocks</td>
<td>5000 PSI, Wet-cast Portland Cement</td>
</tr>
<tr>
<td>Interlocking Biaxial Geogrid</td>
<td>Fornit 30/30 Polypropylene Geogrid with 2,055 lb/ft biaxial strength</td>
</tr>
</tbody>
</table>
| Underlayment Options                  | **Standard** - Curlex® II ECB & Leno Weave Five-Pick Netting  
                                         **Plus** - Recyclex® TRM-V, Curlex® II ECB & Leno Weave Five-Pick Netting  
                                         **Fabric** - 10 oz NW fabric  
                                         *More options available upon request*                                               |

### Manufacturing Values

<table>
<thead>
<tr>
<th>Flexamat® Properties</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roll Width</td>
<td>4’  5.5’  8’  10’  12’  16’</td>
</tr>
<tr>
<td>Roll Length</td>
<td>30’  40’  50’  /Custom</td>
</tr>
<tr>
<td>Material Weight</td>
<td>10 lbs./sf</td>
</tr>
<tr>
<td>Block Size</td>
<td>6.5” x 6.5” x 2.25”</td>
</tr>
<tr>
<td>Percentage Open Area (POA)</td>
<td>30% min.</td>
</tr>
</tbody>
</table>

### Performance

<table>
<thead>
<tr>
<th>Test</th>
<th>Tested Value</th>
<th>Bed Slope</th>
<th>Soil Classification</th>
<th>Limiting Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTM 6460</td>
<td>Shear Stress</td>
<td>30%</td>
<td>Sandy Loam (USDA)</td>
<td>24+PSF</td>
</tr>
<tr>
<td>ASTM 6460</td>
<td>Velocity</td>
<td>20%</td>
<td>Loam (USDA)</td>
<td>30+ ft/sec</td>
</tr>
</tbody>
</table>
Up to 4800 square feet of material can ship on one truckload.