

IMPRINT WAS ONLY THE BEGINNING...
REALIZE THE POSSIBILITIES.

Bomanite® SYSTEMS

-  ▶ BOMANITE TOPPING SYSTEMS
-  ▶ BOMANITE IMPRINT SYSTEMS
-  ▶ BOMANITE CUSTOM POLISHING SYSTEMS
-  ▶ BOMANITE EXPOSED AGGREGATE SYSTEMS
-  ▶ BOMANITE PERVIOUS CONCRETE SYSTEMS

PROJECT PROFILE

Grasscrete
Grasscrete has been a Bomanite System for over 20 years with installations throughout North America in all climate types. Achieved through the use of two differing techniques and three differing tools known as "Formers", Grasscrete is void structured concrete—a pervious pavement system that does not rely on fine aggregate concrete. Grasscrete can be cast using proven mix designs with no potential for freeze thaw or clogging issues. It can be used as an exposed utilitarian product for functional applications or as a concealed system with vegetation such as grass or native ground cover installed over the concrete.

Bomanite Pervious Concrete Systems: Grasscrete



PROJECT STATISTICS

- Photo 1:**
Stone Filled Grasscrete
Application: Los Angeles City Fire Department Structural Load Test
- Photo 2:**
Slope Protection Grasscrete
Application: River Bank Erosion Control
- Photo 3:**
Concealed Grasscrete
Project: Woodlands of College Station
Location: College Station, Texas
Application: Fire Lane for Emergency Vehicle Access
***VIEW PROJECT PROFILE**
- Photo 4:**
Partially Concealed Grasscrete
Project: Covington Readiness Center LA Army National Guard
Location: Covington, Louisiana
Application: Parking Lot
***VIEW PROJECT PROFILE**

Grasscrete is a cast-in-place, rebar reinforced concrete slab containing a series of voids created by a patented forming process. These voids are subsequently filled with a variety of materials from stone through sand and soil planted with a wide variety of vegetation. The Grasscrete system selected can be purely functional or can be a concealed pavement that is both functional and pleasing in appearance. Grasscrete offers the end-user the ability to provide year-round access for a variety of applications requiring structural paving without compromising the aesthetics of their exterior landscaping or having to utilize traditional hard pavements, minimizing the need to control storm water runoff.

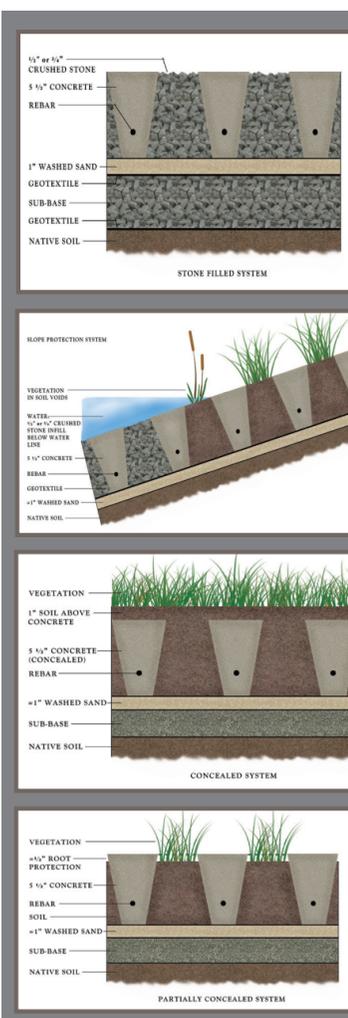
Stone Filled Grasscrete Systems: Ideal for sustained traffic areas, the Grasscrete system can be filled with stone for maximum percolation rates and water retention. Stone filled systems are capable of draining at rates of up to 480 inches per hour with 100% retention of water possible with correct design. The stone filled application is ideal if seeking a low maintenance design.

Slope Protection Grasscrete Systems: Capable of installing at a slope of 1:2 (50%), Grasscrete has been flow tested to rates in excess of 26 feet per second. This enables it to be used in exacting locations such as emergency spillways. The same testing process has also shown that when used in water flow Grasscrete is hydraulically efficient. Under heavy flow, long stemmed grass is flattened with the resulting thatch reducing the Mannings 'n' value for hydraulic roughness to as low as 0.03. Pre-cast concrete systems require infill panels to create directional changes. These spaces can cause turbulent flow that become a focal point for erosion, Grasscrete by contrast is a continuous slab with no such weakness.

Concealed Grasscrete Systems: Ideal for low traffic volume areas, the Grasscrete system can be completely concealed with vegetation so it is functional, environmentally friendly and pleasing in appearance. Grasscrete offers the end-user the ability to provide year-round access for a variety of applications requiring structural paving surfaces without compromising the aesthetics of their exterior landscaping and having to utilize traditional hard pavements, minimizing the need to control stormwater runoff.

Partially Concealed Grasscrete Systems: The 'feel good' factor of greenspace cannot be overlooked as street scenes are softened without losing essential structural performance. Greenspace within urban areas is invaluable in balancing CO2 levels created by vehicular traffic. Located at the actual point of emission, the natural digestion by a grassed parking area can help to avoid atmospheric CO2 build up and reduce the "urban green island effect".

The Bomanite Pervious Concrete Systems are applied by specially trained and licensed Bomanite Contractors, ensuring consistent quality in every application. Every Bomanite Licensed Contractor is part of a network of architectural concrete experts – professionals who receive ongoing technical training to ensure that your project is completed on time, on budget, and beyond your expectations. To find your local certified expert near you, visit www.bomanite.com/grasscrete

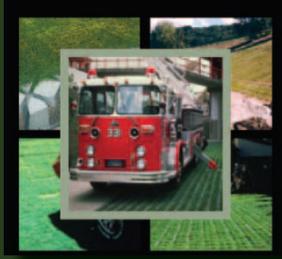


COMMON APPLICATIONS

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|--|---|---|--|
| <p>Stone Filled:</p> <ul style="list-style-type: none"> • Vehicle Parking • Access Roads • Fire and Emergency Access • Military Installations | <p>Slope Protection:</p> <ul style="list-style-type: none"> • Swales • Drainage Channels • Emergency Spillways • Access Roads and Ramps • Detention/Retention Ponds | <p>Concealed:</p> <ul style="list-style-type: none"> • Fire and Emergency Access • Overflow Vehicle Parking • Low Traffic Access Roads • Medians | <p>Partially Concealed:</p> <ul style="list-style-type: none"> • Vehicle Parking • Access Roads • Road Shoulders • Driveways • Fire and Emergency Access |
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NEWS ▶▶▶ Interested in learning more about Grasscrete Void Structured Concrete Systems?

Ask for our 2G0713 or 1VS0110– Void Structured Concrete: Functionally Beautiful and Environmentally Friendly Presentation. This is a 1 hour program, benefiting Architects, specifiers, designers, builders, owners and other design professionals. The program does provide AIA architects and LACES Landscape Architects 1 LU HSW toward the annual requirement.



The program is designed to look at concrete cast with voids or openings as a decorative, structural and environmentally friendly option to traditional non-pervious concrete or unit type non-pervious pavements. The program explores the various applications for Void Structured Concrete including the installation processes, the variety of design, as well as economical and environmental benefits. Additionally, the program compares the attributes of Void Structured Concrete with those of other pervious pavement systems both vegetated and non-vegetated.

There is no cost to bring this program to you, into your firm or chapter meeting. Contact your local Bomanite Grasscrete Licensed Contractor today to learn more.

▶▶ NEW BOMANITE EXPOSED AGGREGATE SYSTEM: Bomanite Alloy

Bomanite Alloy is an architectural exposed concrete with varying exposure depths using non-native quartz and decorative aggregates that are surface seeded on concrete.

The final product is unique alternate to other decorative concrete finishes and is well suited for exterior applications—anywhere that improved wear resistance for light-to moderate-duty vehicular or foot traffic combined with an architectural finish is necessary. Bomanite Alloy is available in a multitude of standard and custom options, including cost effective light-reflective formulations that may not require the use of white cement to reduce heat island effect.

FEATURES AND BENEFITS:

- Decorative aggregate exposure
- Durable for sustainable design
- Permanent, lightfast coloration
- Highly architectural installations
- Increased surface slip resistance
- Wide range of aggregate options



DID YOU KNOW...?

-  ▶ ...that Bomanite Alloy is unique alternate to other decorative concrete finishes? The Bomanite Alloy System utilizes specialized concrete mix designs, dry shake decorative aggregate hardener and/or integral color, topical treatments and advanced application procedures to produce a finished product that showcases the seeded aggregate. For more information on our Exposed Aggregate Systems, [click here](#).
-  ▶ ...often times polished concrete is thought of as simply a shiny concrete floor? Bomanite Custom Polishing Systems capitalize on the hard aggregates, increased cement content and lower water-to-cement ratio in the compacted wear zone at the surface of the concrete, making it a far more superior system in both retention of gloss and durability. Learn more about our Bomanite Custom Polishing Systems.
-  ▶ ...that Grasscrete is ideal for sustained traffic areas and can be partially concealed with vegetation so it is functional, environmentally friendly and pleasing in appearance? Shrubs or trees form a softer, natural marker than do curbs or bollards and can be easily incorporated into most trafficked applications as delineation for vehicles. With its self-draining nature, Grasscrete can be cast to within 24" of mature trees. To learn more about Grasscrete, [Click Here](#).
-  ▶ ...you can improve resistance to Deicing Chemicals with the correct installation of imprinted concrete? By using a Bomanite Contractor they will ensure that Bomanite Color Hardener is used if possible, the surface of the concrete will be sealed and the use of Bomanite Con-Shield as a pre-treatment prior to sealing will be used where Color Hardener was not utilized.
-  ▶ ...that Bomanite Broadcast Aggregate Systems is suitable for high traffic interior or exterior applications? ideal for walkways, commercial applications, industrial facilities, swimming pool decks and garage floors, it's excellent abrasion, impact, and wear resistance properties are perfect for the Broadcast Cornerstar Apartments. To learn more about this project, [click here](#).



CONTACT ▶▶▶

The Bomanite product line is installed only through the licensed Bomanite network, and exclusively by specially trained and highly skilled Licensed Contractors. For the Bomanite Licensed Contractor nearest you, visit www.bomanite.com/locate or call 303.369.1115

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