

A division of Unity Creations, Ltd.

"Unity" Surfacing Systems

Interlocking, Unitary Rubberized Safety Surfacing, Flooring & Pavers

ARCHITECTURAL & BALLAST ROOFING PAVERS



TURNING EMPTY ROOFTOPS INTO USABLE SPACES.



RESIDENTIAL • COMMERCIAL • INDUSTRIAL • INSTITUTIONAL



Printed on recycled paper. Copyright © 2017, www.surfacingsystems.com, Unity Creations, Ltd. All Rights Reserved.



From This . . .



USGBC - The USGBC (United States Green Building Council) via the LEED (Leadership in Energy & Environmental Design) is the nation's foremost coalition of leaders from across the building industry working to promote buildings that are environmentally responsible, profitable and healthy places to live and work. It is leading a national consensus for producing a new generation of buildings that deliver high performance inside and out. As a member of the USGBC program, using our products will help to achieve up to seven (7) LEED points/credits.

Please Note: None of Unity's photographs are digitally altered, edited,



To This



developed or computer generated to fool you. Our images are 100% authentic and real!

Our Safety Surfacing, Flooring and Paver Solutions:

Unity Creations, Ltd. / Unity Surfacing Systems products are engineered and manufactured using the best and safest materials available through our sister company which recycles tires and rubber in-house. Unity, a manufacturing business since 1987, has developed and patented a superior, resilient product made from 100% recycled tires and rubber that is clean and safe to use in almost any environment. Our ingenious design and unique features give us an unparalleled advantage over competing products in the industry.



** Custom blended TPV/EPDM top tiles with 85% white, 10% lt. grey, 5% black*

Unity has created an impressive way to turn unsightly rooftops into usable spaces while at the same time providing thermal and mechanical protection. The performance, long term value, color diversity and economical benefit of our products has appealed to architects, engineers, designers, building owners and managers when renovating and/or retrofitting such rooftop projects.

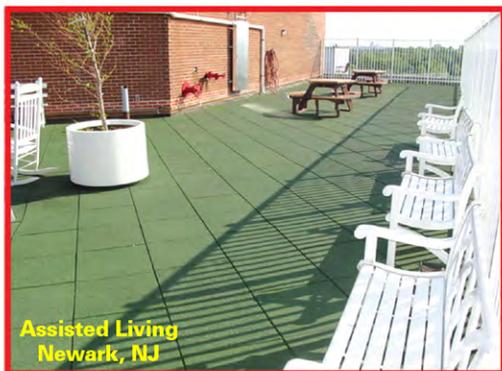


The sheer size, weight, durability, interlocking design, built-in pedestal system, coupled with our specially formulated one-part adhesives, provides resistance to premature wear and tear, wind-up lift, and leg fatigue. Unity's resilient tile/mat/block/paver system will conform to almost any sloped waterproofing membrane system - old or new. It also provides noise reduction when installed on such applications as this rooftop playground seen below:



“Thank you for the beautiful outdoor safety surfacing you installed on our rooftop playground. If you would see the breathtaking emotions of both children and staff, you would agree that a beautiful playground expands a child’s ability to value his or her own capabilities and celebrate others as well.”

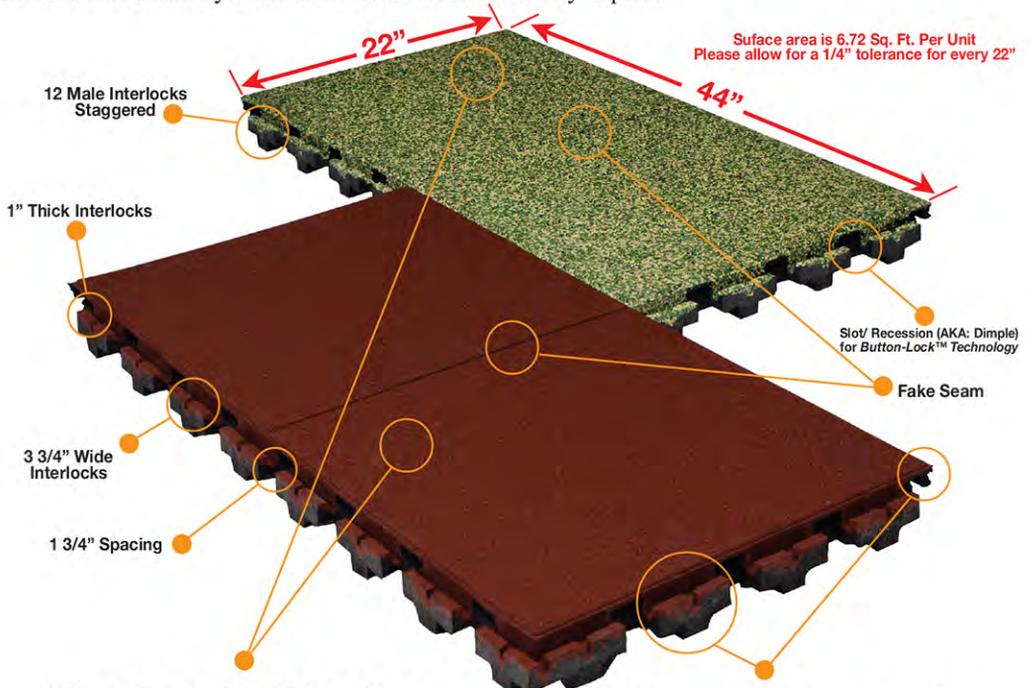
- Carol Hubner, Director of “The Gann Center”



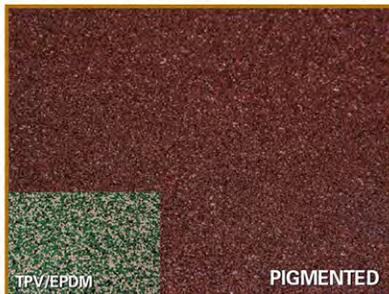
Space is the most valuable asset in most major cities. There is an increasing demand for our products to be installed on rooftops and indoors. We are the only manufacturer to pass several types of class “A” fire tests, including modified versions specifically for these applications, making our products superior for such installations. If required, a superior fire rated version is available prior to ordering.

PRODUCT SPECIFICATIONS - Top Side

Unlike other roofing surfaces, Unity features a flexible *double* tile/ mat/ block/ paver system. With it has a fake seam down the middle to accommodate and adjust to, minor low-sloped variations in a roof membrane. Our resilient double panel allows us to have a monolithic *Step & Repeat* pattern, which lines real seams with fake seams as if you were installing “brickwork.” These technological developments in design act as a backup to further resist separation, curling, peeling and wind up-lift across a roof assembly. Fake seam force real seams to stay in place.

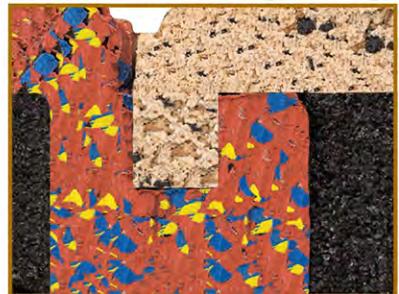


High Density Wear Tops



Our wear-top is manufactured using recycled rubber in conjunction with a wide variety of slip resistant Pigments and/ or blended EDPM/TPV material, coupled with our specially formulated binders. These high density, textured wear-top options are resilient and won't crack, puncture or heave in the most hostile of weather conditions. This versatility is unmatched and provides year round use to the end-user.

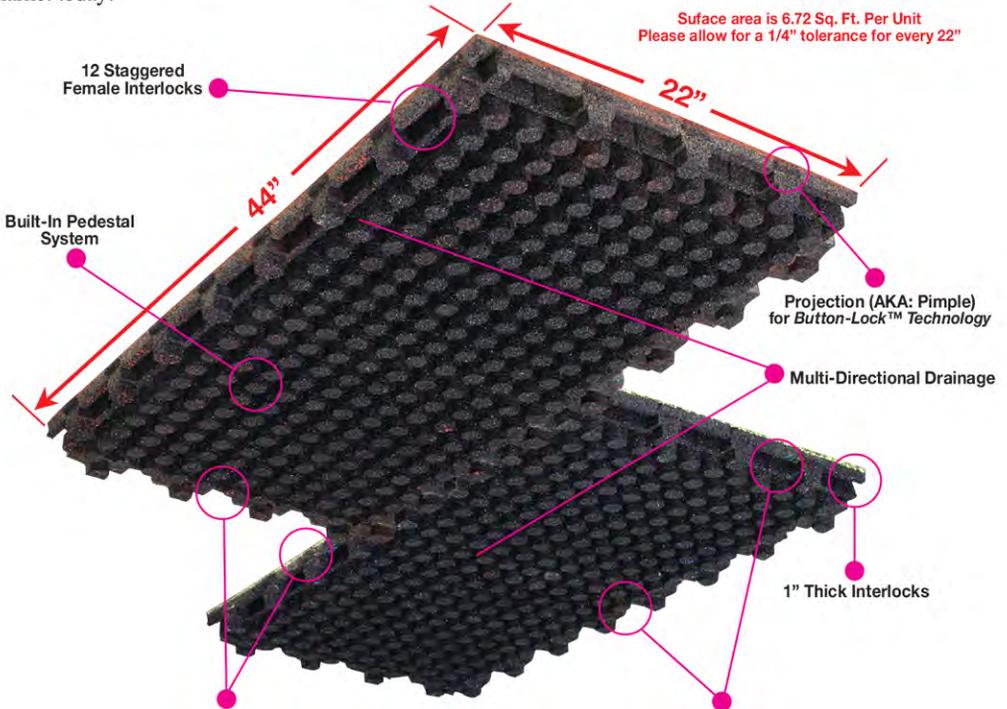
Self Interlocking Design



The patented durable C-shaped self-interlocking design is built directly into the product itself. It locks tightly together thanks to the supporting “back-wall,” which prohibits unnecessary separation, curling, peeling, shifting and wind-up-lift. It is installed with our specially formulated glue/ adhesive, while still providing unlimited access to roof membranes for any maintenance related issues.

PRODUCT SPECIFICATIONS - Bottom Side

With this view from the bottom, one can see that our *solid* coned (feet and/ or leg) design acts as a shock absorber from falls onto the surface below. Being a water permeable product, it also helps with storm water management, by allowing water to flow freely and evenly to the drainage outlet when installed on a rooftop, or a solid sub-base such as concrete (cement) and/ or asphalt (blacktop). Our product design also eliminates any “hard spots” and/ or “picture framing,” a common design problem with other competing products on the market today.

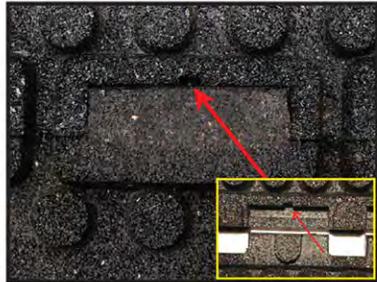


New Button-Lock™ Technology



A revolutionary advancement in design is our patented *Button-Lock™ technology* where the projection of one rubber paver is receivable by a corresponding slot/recession of another rubber paver. It is designed to literally “snap and hook” into place, which has been tested to provide an extra layer of protection to the end user. This additional locking mechanism provides the most secure installations on the market, both horizontally and vertically.

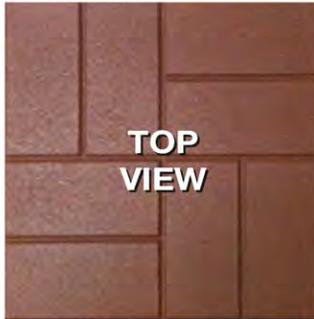
Glue Reservoir



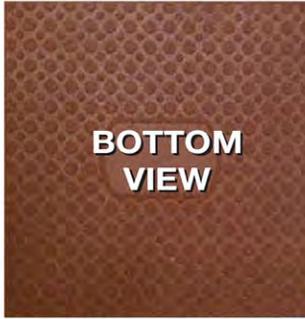
Our unique *glue drainage port* is the only patented system on the market specifically engineered and designed to allow any access glue/adhesive, applied during the installation process, to ooze down and away from the top of our products. This provides the completed area with a nice clean finished look without the burden of glue being tracked onto the newly installed product by un-trained contractors/ installers.

Tile/ Mat/ Block/Paver Series

TOUGH-LAND TILES MATS BLOCKS



TOP VIEW



BOTTOM VIEW

← 24" →

↑ 24" ↓



Available from 1/2" & 3/4" (inches) thick, with brick or tile top look.

Handicapped Accessibility

A rooftop or any surfacing, flooring and/or paver area that has uncontrolled access may require a unitary surface (i.e. rubber tiles/mats/blocks/pavers) to ensure the highest standard of safety. It also reduces high maintenance costs commonly associated with heavy/hard concrete pavers and/or wood decking.



**School for the Disabled
Recreational Rooftop
Boston, Mass.**

More and more agencies are becoming aware of the fact that all public facilities must be handicapped accessible. With the 1991 passage of the "Americans with Disabilities Act" (ADA), many areas are being planned or modified to give people with disabilities an opportunity to participate in more everyday activities. Regardless of who you are, we make it easy to maneuver strollers, crutches, wheel chairs, canes, walkers, etc., as all of our products are designed to give those with or without disabilities and varying mobility's access to freely navigate as per ASTM's *Accessibility-Rotational Penetrometer* test.

Finished Edging: Transition Ramps/ Boarder Guards (Rubber Curbs)

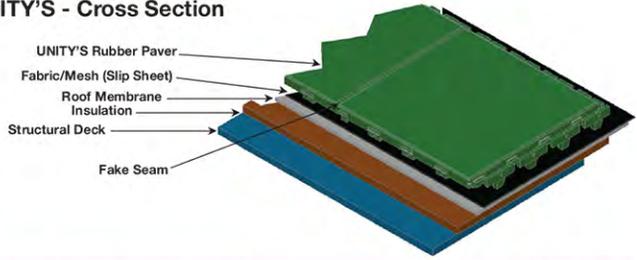


When a wall, fence, curb, parapet or other bordering systems are not available, the transitional ramps and rubber curbs that we offer are a great solution to complement any area, giving it a complete "finished" look. Our ramps provide easy access to any surfacing/flooring area. They also comes in a wide variety of colors and thicknesses to fit your needs.

Sub-Surfacing/Base Options

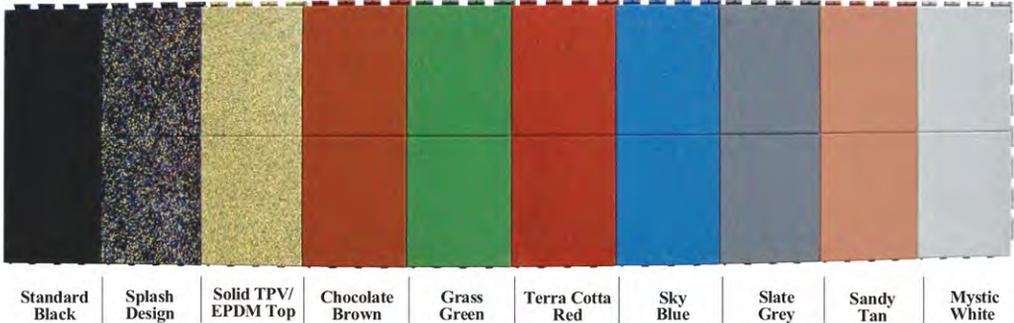
Since the life expectancy of our products is about 20 years or more (if properly maintained), we suggest installing standard roofing membrane, leaving a slight pitch for drainage. Other types of surfacing options include: concrete (cement) or asphalt (blacktop) crushed stone, quarry, wood decking, roofing and/or any standard indoor/outdoor flooring that does not have stress cracks.

UNITY'S - Cross Section



Standard Color Choices (Pigmented & EPDM)

All of Unity's interlocking unitary rubberized safety surfacing, flooring and paver products are made with tire buffings and crumb rubber granules recycled in-house and mixed with a clear urethane. Colorized products are made with pigmented dyes combined with black rubber. These pigments are dispersed throughout the top. A wide variety of colors to choose from include: Black, **Splash Design**, **Solid TPV/EPDM TOP**, **Chocolate Brown**, **Grass Green**, **Terra Cotta Red**, **Sky Blue**, **Slate Grey**, **Sandy Tan** & **Mystic White**.



UV Stabilization Chart

20+ Years

5+ Years

EPDM/TPV Chip choices

The **Splash Design** and **SOLID TPV/EPDM TOP** tiles/mats/blocks/pavers can be manufactured using diverse color combinations and/or percentages generated from the TPV/EPDM granule chart listed below. As a result, one can have unlimited design potential that would compliment any terrace, patio, plaza deck and/or rooftop area. TPV/EPDM color choices include:



Installation

Our products place in the intermediate category regarding installation difficulty. Contractors carry out most of the installations. An installation manual/guide is available upon request and shipped with every order. Adhesive must be applied to a solid base and/or interlocks of our products. Tools that are common for typical installations include: a utility knife or jig saw for cutting, a straight edge to make your cuts accurately, a string line and tape measure. A trowel or caulking gun may be needed for gluing purposes.



The newly developed interlocking features can provide several types of installation procedures allowing one to stagger the joints/interlocks anywhere. This allows for free-flowing designs, layouts and patterns that are effortless to achieve with the "running bond" method, known as our "Step & Repeat", being most popular.



Our products can be cut on site to conform to the most difficult of shapes and patterns. This gives the area a nice clean "finished" look for everyone to enjoy, as seen in the photographs above.

Test Results For Fall Safety Heights

G-MAX & HIC test results conducted at an independent testing laboratory per ASTM F-1292-09, F-355 Procedure C (ANSI Head-Form C), **PASSED**.



These critical tests are the value of avoiding legal problems resulting from lawsuits that stem from inappropriate ground cover. Unity meets or exceeds these ASTM, CPSC & ADA standards by up to 42% when compared with other competing products on the market today.

Weathering (Aging) Test

Test results conducted at an independent laboratory per ASTM C-67, & ASTM D-573, **PASSED**

Skid Resistance Test

Test results conducted at an independent laboratory per ASTM E-303, **PASSED**

Fire Retardant Test

Test results conducted at an independent laboratory per ASTM E-108 & E-648, **PASSED**

Thermal Conductivity (R-Value)

Test results conducted at an independent laboratory per ASTM C-518-98, **PASSED**

Reflectance/SRI & Emittance Test

Testing conducted at an independent laboratory per ASTM E-903, E-891 and E-1980.....**VARIES**

Wind-Uplift Test

Test conducted at an independent laboratory per ANSI 4474 & ASTM D3161. **PASSED**

Impact Resistance Test

Test conducted at an independent laboratory per UL 2218, Class 4. **PASSED**

Painting Systems

After many years of use, like other products on the market today, Unity's products can be painted for a fresh new look. We provide the necessary paints that can be sprayed on or simply rolled on for a brand new look. This application can provide less heat build up and extend the life of our products for many more years to come. We typically carry our standard pigmented colors. However, custom coloring is available upon request.



Warranty

Due to the extreme durability of our safety surfacing, flooring and paver system, each and every product manufactured by Unity Creations, Ltd./Unity Surfacing Systems is backed by a full warranty to protect you and your investment from manufacturing defects. New "extended" warranties have also been added to further strengthen the guarantee of our products and services. Our warranties are specifically designed to assist architects, engineers, project managers and owners to maximize the cost and performance warranty benefits associated with our system. In the end, we offer our customers exceptional value that is unmatched in the industry. Contact Unity directly for more information. A written warranty is available upon request.



*Custom Blended TPV/EPDM top tiles using 85% green, 10% black, 5% gray; 85 % blue, 10% black, 5% gray and 85% gray, 10 % black, 5% blue.

Before & After Examples



Approvals, Sponsors, Affiliates & Memberships



ADA - The Access Board Effective 1992, the Americans with Disabilities Act (ADA), a federal law, prohibits disability-based discrimination by states, local governments, and private entities. The ADA specifically requires that "each service, program, or activity conducted by a public entity, when viewed in its entirety, be readily accessible to, and usable by, individuals with disabilities". The Access Board provides resources, information and guidance related to the ADA, including insight on developing public spaces like rooftops that meet ADA guidelines. Unity meets or exceeds these standards via ASTM-F-1951-99.



ASTM - The American Society for Testing and Materials (ASTM) is the scientific and technical organization chiefly responsible for developing standards for testing different materials. ASTM introduced Standards for Consumer Safety Performance Specifications for Rooftop Applications designated as D3161, C518-98. It is the standard that establishes minimum acceptable performance specifications

for most types of surfacing, flooring and pavers on rooftops. Unity meets or exceeds these standards as seen throughout our brochure.



ANSI - The American National Standards Institute (ANSI) has served in its capacity as administrator and coordinator of the United States private sector voluntary standardization system. ANSI facilitates the development of American National Standards (ANS) per 4474. It is this standard that establishes minimum acceptable performance specifications for most types of surfacing, flooring and pavers on rooftops. UNITY meets or exceeds these standards as seen throughout our brochure.



ECOCYCLABLE - EcoCyclable™ is defined as any product being used more than once (i.e. reusable) as the same, or different, recycled product. Unity's safety surfacing, flooring and paver products can be used in many different locations over and over again. We are the only manufacturer to receive such a prestigious symbol.



UL - The Underwriters Laboratory (UL) is a global independent safety science company offering expertise across five key strategic businesses: Product Safety, Environment, Life & Health, Knowledge Services and Verification Services. Their breadth, established objectivity and proven history mean they are a symbol of trust and enable you to help provide peace of mind to all. The 2218 principle has been met or exceeded by Unity as seen throughout our brochure.



USGBC - The USGBC (United States Green Building Council) via the LEED (Leadership in Energy & Environmental Design) is the nation's foremost coalition of leaders from across the building industry working to promote buildings that are environmentally responsible, profitable and healthy places to live and work. It is leading a national consensus for producing a new generation of buildings that deliver high performance inside and out. As a member of the USGBC program, using our products will help to achieve up to seven (7) LEED points/credits.

Local Dealer's (Rep's) Business Card Here



Unity Creations, Ltd.
Unity Surfacing Systems
3997 Rt. 9W (P.O. Box 9)
Saugerties, NY 12477

T: (1-877) 41-Unity F: (845) 246-1700

E-mail: productinfo@surfacingssystem.com
Internet: www.surfacingssystem.com

Unity believes that our products size, weight, durability, longevity, fall protection ratings (the highest in the industry), and ability to have an integrated self-interlocking feature (for rooftop applications), with bolt-down capabilities (for playground use), can be effectively and easily secured on site to eliminate the potential for wind-up-lift, vandalism and maintenance issues. Everyone at Unity Creations, Ltd. / Unity Surfacing Systems would like to thank you for your interest in our products and services.

www.surfacingssystem.com



Printed on recycled paper. Copyright 1987-2017, www.surfacingssystem.com, Unity Creations, Ltd. All Rights Reserved.