



MILESTONE IMPORTS

PORPHYRY PAVER EXPERTS





MILESTONEIMPORTS.COM



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PORPHYRY PAVEMENT EXPERTS

ABOUT MILESTONE IMPORTS

Milestone Imports has been importing and distributing natural stone paving solutions in the United States and Canada since 1998.

Today it is a leader in bringing exceptional value and service to our customers by representing quarries and factories from around the world.



Our proprietary Porphyry paving stones and GftK jointing mortars use this equation both independently and in a combined system to create a sustainable solution for modern unit paver applications.

Drawing upon the knowledge and experience of Porphyry and Installation expert's world wide, Milestone Imports has established guidelines, specifications and instructions for design, application and installation.

We have the tools to better understand your project goals and to help create a strategy designed to meet your objectives for the highest value solution in natural stone paving.

Our commitment is to deliver the highest value paving solutions and provide support for exceptional design, application and installation. We offer experience that matters.

**QUALITY, UNIQUE STONE SOLUTIONS
WITH EXCEPTIONAL SERVICE
CREATING AN EXCELLENT VALUE.**



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PORPHYRY PAVERS AND COBBLESTONE THE ROYAL ROCK OF ROMAN ROADS

WHAT IS PORPHYRY

Porphyry is a natural igneous rock in the granite family. Porphyry is different than other granites, in that as it cooled from a sub-surface magma formation, seismic activity created fissuring allowing for rapid cooling, creating dense slabs of variable thickness with an even yet rough surface that does not become smooth, due to wear, or slippery when it rains.

WHY CHOOSE PORPHYRY

Porphyry is chosen for its beauty, function, and durability. Porphyry makes an indelible impression as a key element in plazas and streets and adds richness, color, depth, and texture to any design. Porphyry's durability provides an added advantage – it lasts practically forever. Porphyry has an even yet rough surface meeting ADA standards for slip resistance and smoothness. Thanks to the difference in hardness of the minerals it contains, Porphyry Pavers do not become smooth due to wear or slippery when it rains. Porphyry has extremely low maintenance cost, as proved by the excellent conditions of many roads and squares paved hundreds of years ago through out the world Available in many sizes from cubes to pavers, Porphyry lends itself to many styles while meeting modern standards.



info@milestoneimports.com
www.milestoneimports.com

WWW.MILESTONEIMPORTS.COM

COPPER MOUNTAIN



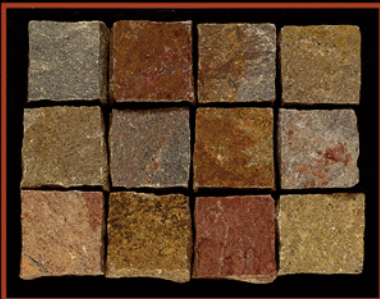
GRIS CLARO



STORM GREY



SIERRA



BASALTO NERO



COLORS

COPPER MOUNTAIN

A beautiful mix of reddish brown, plum, buff-ray and gold. These colors provide earthy rich, warm tones that add to a balanced appearance.

GRIS CLARO

A very consistent light Grey color with subtle movement which enhances the grey tones and add to a balanced appearance.

STORM GREY

A beautiful grey color with small percentages of plum and ochre gold. These colors enhance the grey tones and offer the natural variations Porphyry is known for.

SIERRA

A beautiful mix of reddish brown, grey and ochre gold. These colors enhance the grey tones and add to a balanced appearance.

BASALTO NERO

A very consistent vibrant medium black color that shows texture well.



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Porphyry... the durable choice for paving

SUSTAINABILITY

As far back as the Egyptians and the Romans, Porphyry has been an important paving material because of its functionality, durability and beauty. Some of these ancient roads still exist today! We now find ourselves revisiting the past in meeting today's standards for modern environmentally friendly applications.

Porphyry

- Has an extremely low carbon footprint
- Is harder and less porous than most granites
- Is unaffected by freezing and thawing
- Is highly resistant to chemicals
- Is extremely durable
- Requires very little maintenance
- Porphyry can be installed:
 1. On a poured slab for a rigid application
 2. Over an engineered substrate of aggregate, gravels and sand for a flexible, permeable application.

When set correctly by either method:

Porphyry meets ADA requirements for smoothness and slip resistance.



ENVIRONMENTALLY FRIENDLY

Porphyry is unique in the granite family. As the formation of magma cooled, seismic activity occurred, causing fissures and creating layers of flagging in various thicknesses. When quarried, a series of small explosives are placed at the base of the formation. The blast loosens the stone layers, causing the stone to fall. It is sorted by hand and cut into pavers with hydraulic splitters.

The extremely low carbon footprint of this process creates a very low impact on the environment.



PERMEABILITY

The Romans were the first to create specifications for their roads using layers of various sized aggregate topped with a course sand for leveling the final layer of stone. Today this method has become an important component of modern pavement systems. These systems integrate the use of aggregate substrates to aid in managing storm water in Low Impact Development (LID).

While there are many benefits to permeable paving, the primary benefit is to effectively reduce and manage the quantity of surface water runoff. Water is able to penetrate the joints and naturally filter back into the aquifers in the ground, preventing some pollutants from reaching the aquifer. The joint material should adequately allow the passage of water to quickly drain, possess the structural capability to withstand traffic loads, and provide horizontal stability to the paving surface.



VALUE

Porphyry as a paving surface should be evaluated on its life value and accounting, rather than short term cost. Requiring minimal maintenance with exceptional sustainability, Porphyry saves both in long term expense, and environmental costs. Porphyry is an excellent choice due to its beauty, durability, sustainability, and impact on the environment.



**Porphyry is the durable choice for paving...
for the next thousand years.**



PORPHYRY PAVING STONES AND GFTK JOINTING MORTARS

PERMEABLE PAVING SYSTEM

Low impact, sustainable permeable paving systems (SPPS) have been used throughout Europe for decades showing that it is a valuable solution, when done correctly, with the best materials and utilizing the right applications! Borrowing from the past and reaching into the future it is now possible to have exceptional and sustainable permeable paving offering high performance for light, medium and high traffic loads!

Three ingredients of a successful system are:

1. A design that includes an engineered sub-straight allowing for proper drainage with an overflow outlet
2. High density paving stones with low porosity and rough but straight edges to help with interlock. The most sought after stone pavers are a type of granite called Porphyry
3. Permeable sanded epoxy jointing mortar designed specifically for different traffic densities and road conditions. The leader in this industry is the GftK line of vdw jointing mortars with manufacturing facilities in Germany.

JOINTING MORTAR

Since the company's formation in 1971 GftK GmbH Germany has been pioneering the development of innovative epoxy resin-based mortar systems (EP-mortar). They set a milestone in 1985 with the launch of their first EP pavement fixing mortar as a simple, fast, inexpensive, environmentally compatible and durable option for permeable unit paving projects.

GftK's epoxy resin-based jointing mortars bring a proven record of bonding, strength and durability as the highest value for permeable paving solutions. They are specifically designed for the type of natural stone or manufactured paving, for the format of the paver and the type of traffic and exposure anticipated.

- Fast, durable and cost effective
- Easily flow applied
- Self-compacting
- Can be applied on wet surfaces
- Optimum strength correlation
- Mechanical sweeper resistant
- Abrasion resistant
- Frost de-icing salt resistant
- No weeds or boring insects
- Environmentally friendly



Drawing upon the knowledge and experience of Porphyry and permeable systems expert's world wide, Milestone Imports has established guidelines, specifications and instructions for design, application and installation.





SANDED EPOXY JOINTING MORTAR USE

When planning to use GfK sanded epoxy jointing mortars for a project design, consideration for which type to use should include the following:

- **Type of Paved Area** – residential, commercial, urban sidewalks, streets, & parking areas
- **Paved Area's Traffic Exposure** – pedestrian use, light, medium or heavy vehicular use & heavy commercial traffic
- **Paved Area's Environmental Exposure** – Mechanical or street sweepers, water jets, ice melt & weed or insect prevention, requirements for permeability
- **Size and Type of Unit Pavers** – Small Format Pavers including cubes & cobbles which are regarded as joint dependent or Large Format Paving slabs & flagstone which are considered bedding dependent along with the surface profile, mortar color and sensitivity to grout staining.
- **Installation Conditions** – anticipated wet weather, residual moisture, high or low temperature variations & restrictions on dust or waste run-off.
- **Specific Joint Dimensions** - Joint depth, joint width and the variations of these across the finished area.

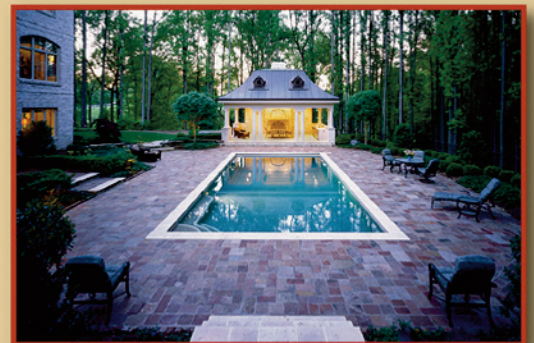


FLOW RATES

GfK JOINTING MORTARS

Key Technical Values

	Compressive Strength	Permeability 20% Joint Space	Flexural Strength	E-Modulus
vdw 800	2,175 psi	1.47 gallons / SF / min.	725 psi	493,106 psi
vdw 850	3,626 psi	5.6 fl oz / SF / min.	1450 psi	797,707 psi
vdw 855	6,527 psi	.72 fl oz / SF / min	2,176 psi	1,232,820 psi





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"We procured porphyry cobblestone from Milestone Imports for a privately owned commercial project in California. Miles went above and beyond the call of duty to make sure that our installation was successful. During the design phase, Miles and his team were extremely helpful in determining which type of porphyry would best meet the design goals of the project. During construction they helped us find an alternate material that would better meet the timeline of the project while preserving the design intent. Miles was also very generous with his time during the installation, and even provided on-the-job training for setting the porphyry in the traditional Italian method. We are extremely pleased with the outcome of this project and look forward to working with Miles on many more to come."

TERESA KENNEDY
LANDSCAPE ARCHITECT AT GARDEN ARCHITECTURE



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1000 Cordova Place Box 31

Santa Fe NM 87505

Toll Free: 1-866-641-1999

info@milestoneimports.com

www.milestoneimports.com