



# PORFIDI ITALIA 2000 SRL

Estrazione - Lavorazione - Fornitura Porfido e Pietre naturali

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## *Porphyry, the Natural Solution for your projects*

**Porfidi Italia 2000** is an Italian company specialized in working of Porphyry (Italian name: Porfido), a natural volcanic effusive stone with excellent technical features in terms of resistance to loads and wear, stain and detergents, and it's frost-resistance. Thanks to the charm of its natural colors and its high characteristics, Porphyry is used for any application, both **for outdoor and indoor** coverings.

**PORPHYRY** is the result of an intense volcanic activity about 260 million years ago. There are 2 types of porphyry quarries: deposits with stratified porphyry formed by vertical clefts and quarries formed by blocks.

**STRATIFIED PORPHYRY** is obtained by quarries with very neat vertical clefts, due to special conditions of its creation millions of years ago. The cooling of the magma was very fast and then emphasized by subsequent tectonic movements that conditioned both the colour and the natural splitting in slabs. This geological feature allows to obtain products with naturally smooth surfaces, without treatments, that are naturally anti-slip. After the quarrying and selection of the raw material, the first product obtained is the crazy paving that can be later worked and transformed in cubes or tiles with natural surface and split or sawn sides.

**MASSIVE PORPHYRY** Porphyry massive blocks are generally parallelepiped. Due to its hardness, it is required a special extraction technique that considerably reduces the use of explosive that could ruin the blocks with cracks. After the extraction, blocks are sawn by gangsaws or diamond discs and successively worked. Surface can be flamed, that is, it is heated with a flame to break its quartzes. This process brings out the colour of the stone and make the surface slightly rough and anti-slip, suitable for pedestrian areas. Other types of surface finishing are flamed+brushed, that makes the surface soft to the touch, or honed and polished.

## *Why use Porphyry in your project? Because it is...*

**#NATURAL** Porphyry is a volcanic stone, 100% natural and recyclable.

**#SAFETY** Porphyry thanks to the hardness of its minerals has a natural anti-slip surface that reduce slip, trip and fall accident rates also with rain, ice and snow. At the same time it is comfortable for barefoot walking. It maintains over time its coefficient of friction, also in high foot and vehicle traffic areas.

**#DURABLE** Porphyry characteristics are hardness and high resistance to the degrading action of environmental factors such as acidic rains, freeze-thaw and hot-cold cycles.

**#RESISTANCE TO IMPACTS** Porphyry is very strength, for this reason it is used where it is particularly exposed to impact from objects, such as kerbs, and the passage of heavy vehicles

**#FREEZE-THAW RESISTANT** Porphyry is suitable for external use also because it is freeze/thaw proof. This is proved by many porphyry squares and roads in high mountain cities, where in winter temperature usually is below zero.

**#VERSATILE** available in different colors and typologies, gives endless design possibilities.

**#LOW MAINTENANCE** Porphyry has a compact structure that prevent stains and dirt from penetrating, making for less laborious process during cleanup. It doesn't require specific cleaners because it is chemically resistant to aggressive media such as acids.

**#UNIQUE AND EXCLUSIVE** every piece is different from the other. Shades and colours are mixed to create a wonderful masterpiece of nature

**#ENDLESSBEAUTY TESTIFIED BY CENTURIES OF HISTORY** Porphyry has been known since ancient times. Assyrian-Babylonian, Egyptian and Roman civilizations used it for buildings, vases and objects. It was the symbol of prestige and luxury for emperors and pharaohs. This material typified imperial ambitions, majesty and power. It was sought after for its color, its grain, its sheen, its hardness and resistance. Thanks to these features it has been maintained through the centuries until today.

Discover the wide range of our Porphyry products on our website: <http://www.porfidiitalia2000.it>

