

Pervious Concrete

Walkways

Driveways

Hike and Bike Trails

Parking lots

Streetscapes

Spoil-banks

Street aprons



This multi-faceted product can meet you water handling needs.



Concrete Promotion Council of Southwest Ohio

7176 Lakota Ridge Drive
Liberty Twp., OH 45011-8745

Phone: 513-777-4229
Fax: 513-777-4229
Email: concreteman@cinci.rr.com



Concrete for
pavement that lasts

Pervious Concrete Helps Manage Storm Water Runoff



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Southwest Ohio**

Tel: 513-777-4229

A New Product Is In Town

Pervious concrete is recognized by the EPA as a best practice in handling first flush storm water runoff. This product addresses two vital factors in concrete paving. The first being a suitable surface for light duty to moderate duty vehicles. The second being its ability to help manage the storm water runoff and reduce the need for on-site detention ponds. In fact, given certain criteria, it may be able to eliminate detention ponds all together.



Pervious concrete parking lot will handle water runoff.

Pervious concrete is made up of standard concrete components with the exception of little or no fine aggregate. This provides a product that has 15 percent or more voids, allowing water to penetrate right through. With this void content, water can easily enter the aquifer directly under the pavement drastically reducing the need for under drains, detention ponds and possibly grates and catch basins. By trickling through the pervious concrete a rudimentary filtration process begins. The rigid surface provides area for handling all types of activity from parking to hike and bike trails. The surface can be maintained in a similar fashion to normal concrete. It is capable of handling snow removal equipment and other modes of pavement management.

Ease of Installation

With its simple design, pervious concrete is easily placed. It is delivered to the jobsite in concrete trucks and placed in standard forms. The procedure varies slightly from conventional concrete in that it is screeded into place using hand or motorized screeds. After placement it is compacted using a roller to consolidate the mix. Essential to the successful completion of the project, it must be cured for a minimum of seven days using visqueen. This step is necessary to insure strength gain capable of handling traffic and weather.



Combination screed and roller compactor

Depending on the soils, this product can be placed on grade or over stone to handle rainwater. The base design depends on the anticipated need for storm water runoff and the capacity of the detention pond, if any.



The stone base enhances the water holding capacity and curing with visqueen insures success.

Pervious concrete will allow rainwater to enter the aquifer along tree-islands negating the need for catch basins and grates. The trees will benefit from a larger area from which to gather water.

It is also appropriate for walkways and hike and bike trails. Being environmentally friendly, pervious concrete aids in irrigation and propagation of trees and plants along the pathways.

Combined with other purification methods, pervious concrete can be a first phase filtration system to handle less desirable runoff such as fuels and oil.

The applications for this product are only limited by the imagination of the designer. From streetscapes to landscapes, pervious concrete helps to control and utilize storm water runoff.



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