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Pervious Concrete

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*The members of ACI Committee 522 dedicate this document to the memory of Don Brown,
Chair of the editorial subcommittee.

This report provides technical information on pervious concrete's applications, design methods, materials, properties, mixture proportioning, construction methods, testing, and inspection.

The term "pervious concrete" typically describes a semi-slump, open-graded material consisting of portland cement, coarse aggregate, little or no fine aggregate, admixtures, and water. The combination of these ingredients will produce a hardened material with connected pores, ranging in size from 0.08 to 0.82 in. (2 to 8 mm), that allow water to pass through easily. The void content can range from 18 to 35%, with typical compressive strengths of 400 to 4000 psi (2.8 to 28 MPa). The drainage rate of pervious concrete pavements will vary with aggregate size and density of the mixture, but will generally fall into the range of 2 to 18 gal./hour/ft² (81 to 750 L/hour/m²).

Keywords: construction; design; drainage; permeability; pervious concrete pavement; stormwater; testing.

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ACI 522R-06 became effective April 3, 2006.
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