

An ACI Standard

# Specification for Construction of Pervious Concrete Pavement

Reported by ACI Committee 522

ACI 522.1-20



American Concrete Institute  
*Always advancing*

This is a preview. [Click here to purchase the full publication.](#)



## Specification for Construction of Pervious Concrete Pavement

Copyright by the American Concrete Institute, Farmington Hills, MI. All rights reserved. This material may not be reproduced or copied, in whole or part, in any printed, mechanical, electronic, film, or other distribution and storage media, without the written consent of ACI.

The technical committees responsible for ACI committee reports and standards strive to avoid ambiguities, omissions, and errors in these documents. In spite of these efforts, the users of ACI documents occasionally find information or requirements that may be subject to more than one interpretation or may be incomplete or incorrect. Users who have suggestions for the improvement of ACI documents are requested to contact ACI via the errata website at <http://concrete.org/Publications/DocumentErrata.aspx>. Proper use of this document includes periodically checking for errata for the most up-to-date revisions.

ACI committee documents are intended for the use of individuals who are competent to evaluate the significance and limitations of its content and recommendations and who will accept responsibility for the application of the material it contains. Individuals who use this publication in any way assume all risk and accept total responsibility for the application and use of this information.

All information in this publication is provided “as is” without warranty of any kind, either express or implied, including but not limited to, the implied warranties of merchantability, fitness for a particular purpose or non-infringement.

ACI and its members disclaim liability for damages of any kind, including any special, indirect, incidental, or consequential damages, including without limitation, lost revenues or lost profits, which may result from the use of this publication.

It is the responsibility of the user of this document to establish health and safety practices appropriate to the specific circumstances involved with its use. ACI does not make any representations with regard to health and safety issues and the use of this document. The user must determine the applicability of all regulatory limitations before applying the document and must comply with all applicable laws and regulations, including but not limited to, United States Occupational Safety and Health Administration (OSHA) health and safety standards.

Participation by governmental representatives in the work of the American Concrete Institute and in the development of Institute standards does not constitute governmental endorsement of ACI or the standards that it develops.

Order information: ACI documents are available in print, by download, through electronic subscription, or reprint, and may be obtained by contacting ACI.

ACI codes, specifications, and practices are made available in the ACI Collection of Concrete Codes, Specifications, and Practices. The online subscription to the ACI Collection is always updated, and includes current and historical versions of ACI's codes and specifications (in both inch-pound and SI units) plus new titles as they are published. The ACI Collection is also available as an eight-volume set of books and a USB drive.

**American Concrete Institute**  
**38800 Country Club Drive**  
**Farmington Hills, MI 48331**  
**Phone: +1.248.848.3700**  
**Fax: +1.248.848.3701**

[www.concrete.org](http://www.concrete.org)

This is a preview. Click here to purchase the full publication.

# Specification for Construction of Pervious Concrete Pavement

An ACI Standard

Reported by ACI Committee 522

Norbert J. Delatte, Chair

John T. Kevern, Vice Chair

Bob J. Banka  
Daniel T. Biddle  
William D. Brant  
Heather J. Brown  
John F. Cook  
Bernard J. Eckholdt III  
Aly Ibrahim Eldarwish  
Scott J. Erickson  
Dale Fisher

Walter H. Flood, IV  
Bruce A. Glaspey  
Liv Haselbach  
Amanda H. Hult  
Frank A. Kozeliski  
David Liguori  
Jesse L. Long  
Allyn C. Luke  
Brian Lutey

Kamyar C. Mahboub  
Steven L. Mallicoat  
Luis A. Mata  
Somayeh Nassiri  
Narayanan Neithalath  
Matthew A. Offenberg  
Oon-Soo Ooi  
Thomas L. Rozsits  
George W. Seegebrecht

David R. Smith  
Alan Sparkman  
Christopher R. Tull  
Robert L. Varner  
Charles A. Weiss Jr.  
Jason D. Wimberly  
Peter T. Yen

## Consulting Members

Manoj Chopra  
Bruce K. Ferguson

Daniel J. Huffman  
Scott M. Palotta

Stephen F. Rohrbach  
Joseph E. Rottman

Andy K. Youngs

*This Specification covers minimum requirements for the construction of pervious concrete pavement. This Specification covers materials, preparation, forming, placing, finishing, jointing, curing, and quality control of pervious concrete pavement. Provisions governing testing, evaluation, and acceptance of pervious concrete pavement are included.*

**Keywords:** construction; curing; inspection; jointing; parking lots; testing.

## CONTENTS

(mandatory portion follows)

### PART 1—GENERAL, p. 2

- 1.1—Scope, p. 2
- 1.2—Interpretation, p. 2
- 1.3—Definitions, p. 2
- 1.4—Referenced standards, p. 3
- 1.5—Submittals, p. 3
- 1.6—Quality assurance and quality control, p. 3

### PART 2—PRODUCTS, p. 4

- 2.1—Subbase, p. 4
- 2.2—Pervious concrete, p. 4
- 2.3—Isolation joint material, p. 5
- 2.4—Forms, p. 5
- 2.5—Curing materials, p. 5

ACI Committee Reports, Guides, and Commentaries are intended for guidance in planning, designing, executing, and inspecting construction. This document is intended for the use of individuals who are competent to evaluate the significance and limitations of its content and recommendations and who will accept responsibility for the application of the material it contains. The American Concrete Institute disclaims any and all responsibility for the stated principles. The Institute shall not be liable for any loss or damage arising therefrom.

Reference to this document shall not be made in contract documents. If items found in this document are desired by the Architect/Engineer to be a part of the contract documents, they shall be restated in mandatory language for incorporation by the Architect/Engineer.

ACI 522.1-20 (SI Units) supersedes ACI 522.1M-13, became effective May 15, 2020, and was published October 2021.

Copyright © 2021, American Concrete Institute.

All rights reserved including rights of reproduction and use in any form or by any means, including the making of copies by any photo process, or by electronic or mechanical device, printed, written, or oral, or recording for sound or visual reproduction or for use in any knowledge or retrieval system or device, unless permission in writing is granted by the American Concrete Institute.