

An ACI Standard

# Performance-Based Fiber-Reinforced Concrete for Slabs-on-Ground and Overlays—Specification

Reported by ACI Committee 544

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American Concrete Institute  
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## Performance-Based Fiber-Reinforced Concrete for Slabs-on-Ground and Overlays— Specification

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*This Specification covers the performance requirements for the use of fiber-reinforced concrete in slabs-on-ground and overlays, and includes provisions for the minimum equivalent flexural residual strength required for the fiber-reinforced concrete. It applies to the use of steel, synthetic, and glass macrofiber used to replace reinforcing steel bars and welded-wire reinforcement. This Specification is intended to supplement the requirements presented in ACI 301 and not intended to be a standalone specification. The use of microfibers for plastic shrinkage crack-width control is not covered by this Specification.*

**Key words:** equivalent flexural residual strength; fiber(s); fiber-reinforced concrete; overlays; slabs-on-ground.

## CONTENTS

### **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, p. 3

### **PART 2—PRODUCTS, p. 3**

- 2.1—Materials, p. 3

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