

IN-LB

Inch-Pound Units

SI

International System of Units

Guide to Selecting Protective Treatments for Concrete

Reported by ACI Committee 515

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Guide to Selecting Protective Treatments for Concrete

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

Guide to Selecting Protective Treatments for Concrete

Reported by ACI Committee 515

Fred R. Goodwin, Chair

Terry J. Willems, Secretary

Ralph T. Brown
Dianne Carey
Stephen D. Disch
H. Peter Golter

Edward P. McGettigan
Oon-Soo Ooi
Keith A. Pashina
Arthur T. Weiss Jr.

Consulting members
Jon B. Ardahl
Charles O. Pratt
Ronald R. Stankie

Concrete structures can be subjected to physical or chemical attacks by various substances, including water, acids, alkalis, salt solutions, and organic chemicals. Damage may vary in intensity from surface discoloration or roughening to catastrophic loss of structural integrity due to acid attack. This guide addresses the effects of various substances on untreated concrete and provides recommendations for protective treatments.

Keywords: acids; alkali; chemical attack; coal tar distillates; coatings; deicer; distress; durability; exposure condition; fatty acids; hardener; membrane; petroleum oils; protective treatment; resin; salt solution; sealer; solvents; topping; vegetable oils.

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