

Cement, Concrete, and Aggregates

Subject Index

Volume 17, 1995

A

AC impedance spectroscopy

Determination of silica-fume content in hardened concrete by AC impedance spectroscopy (Gu, P, Xie, P, and Beaudoin, JJ), June, 92

Some applications of AC impedance spectroscopy in cement research (Gu, P, Xie, P, and Beaudoin, JJ), Dec., 113

Accelerated testing methods

Why the accelerated mortar bar method ASTM C 1260 is reliable for evaluating the effectiveness of supplementary cementing materials in suppressing expansion due to alkali-silica reactivity (Bérubé, M-A, Duchesne, J, and Chouinard, D), June, 26

Acrylic

Acrylic powder modified portland cement (Ci, X and Falconio, RR), Dec., 218

Acrylic polymers

Comparison of liquid dispersions with spray-dried acrylic polymers as modifiers of a cement-based patching material (Bright, RP), Dec., 227

Alkali-aggregate reactions

Why the accelerated mortar bar method ASTM C 1260 is reliable for evaluating the effectiveness of supplementary cementing materials in suppressing expansion due to alkali-silica reactivity (Bérubé, M-A, Duchesne, J, and Chouinard, D), June, 26

ASTM standards

Why the accelerated mortar bar method ASTM C 1260 is reliable for evaluating the effectiveness of supplementary cementing materials in suppressing expansion due to alkali-silica reactivity (Bérubé, M-A, Duchesne, J, and Chouinard, D), June, 26

B

Blast-furnace slag

Determination of slag and pulverized fuel ash in hardened concrete--the

method of last resort revisited (Grantham, MG), June, 76

New consecutive dissolution method for the analysis of slag cements (Goguel, R), June, 84

Blast furnace slag cements

Determination of blast-furnace slag content in hardened concrete by electrical conductivity methods (Xie, P, Gu, P, Fu, Y, and Beaudoin, JJ), June, 79

Blended

Determination of silica fume in unhydrated, blended, dry-packaged mixture, and hydrated mortar (Coleman, SE, Hwu, S-J, and Vogt, WL), June, 61

Broken tile

Crushed tile coarse aggregate concrete (Khaloo, AR), Dec., 119

C

Calcium nitrite

Determination of a nitrite-based corrosion inhibitor in plastic and hardened concrete (Jeknavorian, AA, Chin, D, and Saidha, L), June, 48

Passivation of reinforcing steel exposed to synthetic pore solution and the effect of calcium-nitrite inhibitor (Tullmin, M, Mammoliti, L, Sohdi, R, Hansson, CM, and Hope, BB), Dec., 134

Cement analysis

New consecutive dissolution method for the analysis of slag cements (Goguel, R), June, 84

Ceramic tile

Properties of a non-film forming latex in ceramic tile mortar (Kuhlmann, LA), Dec., 209

Chloride corrosion

Efficiency of natural Greek pozzolan in chloride-induced corrosion of steel reinforcement (Kouloumbi, N, Batis, G, and Pantazopoulou, P), June, 18

Coarse aggregate

Crushed tile coarse aggregate concrete (Khaloo, AR), Dec., 119

Code formulae

High-strength concrete properties derived from compressive strength values (Khayat, KH, Bickley, JA, and Hooton, RD), Dec., 126

Compositional analysis

Survey of North American portland cements: 1994 (Gebhardt, RF), Dec., 145

Compressive strength

Amendment of Appendix X2 in ASTM C 917 evaluation of cement uniformity from a single source (Sykora, V), Dec., 190

High-strength concrete properties derived from compressive strength values (Khayat, KH, Bickley, JA, and Hooton, RD), Dec., 126

Results of an interlaboratory test program: compressive strength of concrete (Kennedy, S, Detwilder, R, Bickley, J, and Thomas, M), June, 3

Corrosion inhibitor

Determination of a nitrite-based corrosion inhibitor in plastic and hardened concrete (Jeknavorian, AA, Chin, D, and Saidha, L), June, 48

Crack propagation

Curing stresses in polymer-modified repair mortars (Pinelle, DJ), Dec., 195

Crushed tile

Crushed tile coarse aggregate concrete (Khaloo, AR), Dec., 119

Curing

Efficiency of natural Greek pozzolan in chloride-induced corrosion of steel reinforcement (Kouloumbi, N, Batis, G, and Pantazopoulou, P), June, 18

Curing stresses

Curing stresses in polymer-modified repair mortars (Pinelle, DJ), Dec., 195

E

Editorials

Editorial (Hooton, RD), June, 2

Electrical conductivity

Determination of blast-furnace slag content in hardened concrete by electrical

Electrical conductivity (*continued*)

conductivity methods (Xie, P, Gu, P, Fu, Y, and Beaudoin, JJ), June, 79

F**Fine aggregate**

Quantitative petrographic evaluation of fine aggregate (Hudec, PP and Boateng, S), Dec., 107

Flexural strength

High-strength concrete properties derived from compressive strength values (Khayat, KH, Bickley, JA, and Hooton, RD), Dec., 126

Fly ash

Determination of slag and fly ash content in hardened concrete (Hooton, RD and Rogers, CA), June, 55

Determination of slag and pulverized fuel ash in hardened concrete--the method of last resort revisited (Grantham, MG), June, 76

Rapid determination of the fly ash content of construction materials (Schlorholtz, SM and Dubberke, W), June, 69

Setting times of fly ash and slag-cement concretes as affected by curing temperature (Eren, O, Brooks, JJ, and Celik, T), June, 11

H-I**Hardened concrete**

Determination of slag and fly ash content in hardened concrete (Hooton, RD and Rogers, CA), June, 55

Introduction to symposium on determination of the chemical and mineral admixture content of hardened concrete (Kosmatka, SH and Jeknavorian, A), June, 35

High strength concretes

High-strength concrete properties derived from compressive strength values (Khayat, KH, Bickley, JA, and Hooton, RD), Dec., 126

Industrial floors

Self-smoothing industrial floors (Alexanderson, J), Dec., 205

Interlaboratory study

Results of an interlaboratory test program: compressive strength of concrete (Kennedy, S, Detwilder, R, Bickley, J, and Thomas, M), June, 3

L**Latex-modified concrete**

Latex-modified concrete overlay on plain-jointed concrete pavement (Glauz, DL), Dec., 201

Latex mortar

Properties of a non-film forming latex in ceramic tile mortar (Kuhlmann, LA), Dec., 208

Lignin

Limitations of the carbonate extraction/UV spectrophotometric method for determining lignosulfonate-based admixtures in hardened concrete (Sanders, CI, Jr., Sadeghi, SS, and Nelson, NL), June, 37

Lignosulfonate

Limitations of the carbonate extraction/UV spectrophotometric method for determining lignosulfonate-based admixtures in hardened concrete (Sanders, CI, Jr., Sadeghi, SS, and Nelson, NL), June, 37

M**Microdeval abrasion**

Quantitative petrographic evaluation of fine aggregate (Hudec, PP and Boateng, S), Dec., 107

Mineral admixtures

Rapid determination of the fly ash content of construction materials (Schlorholtz, SM and Dubberke, W), June, 69

Mortars

Introduction to symposium on polymer-modified concrete and mortars: building on the past and moving into the future (Bright, RP, Fitzgerald, PL, and O'Brien, MJ), Dec., 193

N-O**Natural pozzolan**

Efficiency of natural Greek pozzolan in chloride-induced corrosion of steel reinforcement (Kouloumbi, N, Batis, G, and Pantazopoulou, P), June, 18

Nonfilm forming latex

Properties of a non-film forming latex in ceramic tile mortar (Kuhlmann, LA), Dec., 208

Overlay

Latex-modified concrete overlay on plain-jointed concrete pavement (Glauz, DL), Dec., 201

P**Paste**

Some applications of AC impedance spectroscopy in cement research (Gu, P, Xie, P, and Beaudoin, JJ), Dec., 113

Pavements

Latex-modified concrete overlay on plain-jointed concrete pavement (Glauz, DL), Dec., 201

Petrographic analysis

Quantitative petrographic evaluation of fine aggregate (Hudec, PP and Boateng, S), Dec., 107

Physical properties

Survey of North American portland cements: 1994 (Gebhardt, RF), Dec., 145

Polymer modification

Comparison of liquid dispersions with spray-dried acrylic polymers as modifiers of a cement-based patching material (Bright, RP), Dec., 227

Self-smoothing industrial floors (Alexanderson, J), Dec., 205

Polymer-modified concrete

Introduction to symposium on polymer-modified concrete and mortars: building on the past and moving into the future (Bright, RP, Fitzgerald, PL, and O'Brien, MJ), Dec., 193

Polymers

Acrylic powder modified portland cement (Ci, X and Falconio, RR), Dec., 218

Portland cement

Comparison of liquid dispersions with spray-dried acrylic polymers as modifiers of a cement-based patching material (Bright, RP), Dec., 227

Determination of blast-furnace slag content in hardened concrete by electrical conductivity methods (Xie, P, Gu, P, Fu, Y, and Beaudoin, JJ), June, 79

Determination of silica-fume content in hardened concrete by AC impedance spectroscopy (Gu, P, Xie, P, and Beaudoin, JJ), June, 92

Survey of North American portland cements: 1994 (Gebhardt, RF), Dec., 145

Proctor penetration

Setting times of fly ash and slag-cement concretes as affected by curing temperature (Eren, O, Brooks, JJ, and Celik, T), June, 11

Pulverized fuel ash

Determination of slag and pulverized fuel ash in hardened concrete--the method of last resort revisited (Grantham, MG), June, 76

R**Redispersible powder**

Acrylic powder modified portland cement (Ci, X and Falconio, RR), Dec., 218

Comparison of liquid dispersions with spray-dried acrylic polymers as modifiers of a cement-based patching material (Bright, RP), Dec., 227

Reinforcement corrosion

Passivation of reinforcing steel exposed to synthetic pore solution and the effect of calcium-nitrite inhibitor (Tullmin, M, Mammoliti, L, Sohdi, R, Hansson, CM, and Hope, BB), Dec., 134

Repair mortar

Curing stresses in polymer-modified repair mortars (Pinelle), Dec., 195

S

Self-smoothing

Self-smoothing industrial floors (Alexander, J), Dec., 205

Selective dissolution

New consecutive dissolution method for the analysis of slag cements (Goguel, R), June, 84

Setting time

Setting times of fly ash and slag-cement concretes as affected by curing temperature (Eren, O, Brooks, JJ, and Celik, T), June, 11

Silica fume

Determination of silica-fume content in hardened concrete by AC impedance spectroscopy (Gu, P, Xie, P, and Beaudoin, JJ), June, 92

Determination of silica fume in unhydrated, blended, dry-packaged mixture,

and hydrated mortar (Coleman, SE, Hwu, S-J, and Vogt, WL), June, 61

Some applications of AC impedance spectroscopy in cement research (Gu, P, Xie, P, and Beaudoin, JJ), Dec., 113

Slag

Determination of slag and fly ash content in hardened concrete (Hooton, RD and Rogers, CA), June, 55

Setting times of fly ash and slag-cement concretes as affected by curing temperature (Eren, O, Brooks, JJ, and Celik, T), June, 11

Sodium chloride

Passivation of reinforcing steel exposed to synthetic pore solution and the effect of calcium-nitrite inhibitor (Tullmin, M, Mammoliti, L, Sohdi, R, Hansson, CM, and Hope, BB), Dec., 134

Spectrophotometry

Limitations of the carbonate extraction/UV spectrophotometric method for determining lignosulfonate-based admixtures in hardened concrete (Sanders, CI, Jr., Sadeghi, SS, and Nelson, NL), June, 37

Spectroscopy

Some applications of AC impedance spectroscopy in cement research (Gu, P, Xie, P, and Beaudoin, JJ), Dec., 113

Standardization

Results of an interlaboratory test program: compressive strength of concrete (Kennedy, S, Detwilder, R, Bickley, J, and Thomas, M), June, 3

Steel reinforcement

Determination of a nitrite-based corrosion inhibitor in plastic and hardened concrete (Jeknavorian, AA, Chin, D, and Saidha, L), June, 48

Efficiency of natural Greek pozzolan in chloride-induced corrosion of steel reinforcement (Kouloumbi, N, Batis, G, and Pantazopoulou, P), June, 18

Strength

Amendment of Appendix X2 in ASTM C 917 evaluation of cement uniformity from a single source (Sykora, V), Dec., 190

T-X

Test methods

Determination of silica fume in unhydrated, blended, dry-packaged mixture, and hydrated mortar (Coleman, SE, Hwu, S-J, and Vogt, WL), June, 61

Ultraviolet

Limitations of the carbonate extraction/UV spectrophotometric method for determining lignosulfonate-based admixtures in hardened concrete (Sanders, CI, Jr., Sadeghi, SS, and Nelson, NL), June, 37

Uniformity

Amendment of Appendix X2 in ASTM C 917 evaluation of cement uniformity from a single source (Sykora, V), Dec., 190

X-ray fluorescence

Rapid determination of the fly ash content of construction materials (Schlorholtz, SM and Dubberke, W), June, 69