

Nelson Testing Laboratories Testing Capabilities

AASHTO M235

AASHTO R31
AASHTO T11
AASHTO T19
AASHTO T21
AASHTO T22
AASHTO T27
AASHTO T71
AASHTO T84
AASHTO T85
AASHTO T96
AASHTO T97
AASHTO T103
AASHTO T104
AASHTO T105
AASHTO T119
AASHTO T121
AASHTO T131
AASHTO T152
AASHTO T157
AASHTO T158
AASHTO T160
AASHTO T161
AASHTO T177
AASHTO T196
AASHTO T197
AASHTO T198
AASHTO T237
AASHTO T255
AASHTO T259
AASHTO T260
AASHTO T277
AASHTO T303
AASHTO T336
AASHTO T358
ACI 544.2
ACI Waterstop
AIA File No. 9

Specification for Epoxy Resin Adhesives

Protective Coatings
Materials Finer Than 75- μ m (No. 200) Sieve by Washing
Bulk Density ("Unit Weight") and Voids in Aggregate
Organic Impurities in Fine Aggregates for Concrete
Compressive Strength of Cylindrical Concrete Specimens
Sieve Analysis of Fine and Coarse Aggregates
Effect of Organic Impurities in Fine Aggregate on Strength of Mortar
Specific Gravity (Relative Density) and Absorption of Fine Aggregate
Specific Gravity and Absorption of Coarse Aggregate
Small-Size Coarse Aggregate in the Los Angeles Machine
Flexural Strength of Concrete (Third-Point Loading)
Soundness - Fine Aggregate
Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate Sulfate
Slump of Hydraulic Cement Concrete
Density (Unit Weight), Yield, and Air Content of Concrete
Set Time - Vicat
Air Content of Freshly Mixed Concrete by the Pressure Method
Air-Entraining Admixtures for Concrete
Bleeding of Concrete
Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete
Resistance of Concrete to Rapid Freezing and Thawing
Flexural Strength of Concrete (Center-Point Loading)
Air Content of Freshly Mixed Concrete by the Volumetric Method
Time of Setting of Concrete Mixtures by Penetration Resistance
Splitting Tensile Strength of Cylindrical Concrete Specimens
IR Scan
Total Moisture Content of Aggregate by Drying
Resistance of Concrete to Chloride Ion Penetration
Sampling and Testing for Chloride Ion in Concrete
Concrete's Ability to Resist Chloride Ion Penetration
Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)
Coefficient of Thermal Expansion of Concrete
Surface Resistivity of Concrete's Ability to Resist Chloride Ion Penetration
Impact Resistance - Drop Weight Test
ACI Waterstop Test
Ceramic Veneer

(Continued)

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Nelson Testing Laboratories Testing Capabilities

Alberta B388**Alberta B391**

Alberta BT001

Alberta BT002

Alberta BT005

Alberta BT008

ANSI A118.4

ANSI A118.10

ANSI A118.12

ANSI A118.15

ANSI A136.1

AS-3799-WR

ASTM C25

ASTM C29

ASTM C31

ASTM C33

ASTM C39

ASTM C40

ASTM C42

ASTM C67

ASTM C78

ASTM C87

ASTM C88

ASTM C90**ASTM C91**

ASTM C97

ASTM C99

ASTM C109

ASTM C110

ASTM C114

ASTM C117

ASTM C123

ASTM C127

ASTM C128

ASTM C131

ASTM C136

ASTM C138

ASTM C140

Specification for Concrete Sealers**Specification for Concrete Patching Materials**

Vapour Transmission, Waterproofing and Hiding Power

Alkaline Resistance

Waterproofing Performance

IR Scan

Test Methods and Physical Properties for Ceramic Tile Installation Materials

Waterproof Membranes for Thin-Set Ceramic Tile and Dimension Stone

Membranes for Thin-Set Ceramic Tile and Dimension Stone Installations

Improved Modified Dry-Set Cement Mortar

Organic Adhesives for Installation of Ceramic Tile.

Australian Curing Compound - Water Retention

Chemical Testing of Lime

Bulk Density

Making and Curing Concrete Test Specimens in the Field

Specification for Concrete Aggregates

Compressive Strength

Organic Impurities

Test Method for Testing Concrete Cores

Test Methods for Brick and Clay Tile

Flexural Strength

Effect of Organic Impurities in Fine Aggregate on Strength of Mortar

Soundness

Specification for Concrete Masonry Units**Specification for Masonry Cement**

Absorption

Modulus of Rupture

Compressive Strength

Physical Testing of Lime

Lime - Compressive Strength

Materials finer than 75-µm

Lightweight Particles

Specific Gravity and Absorption of Coarse Aggregate

Specific Gravity (Relative Density) and Absorption of Fine Aggregate

Los Angeles Abrasion of Small-Size Aggregate

Sieve Analysis

Density

Test Methods for Concrete Masonry Units

(Continued)

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Nelson Testing Laboratories Testing Capabilities

ASTM C142	Clay Lumps and Friable Particles
ASTM C143	Slump
ASTM C151	Autoclave Expansion
ASTM C156	Water Retention of Curing Compounds
ASTM C157	Length Change
ASTM C170	Compressive Strength
ASTM C173	Air Content - Volumetric
ASTM C185	Density and Yield
ASTM C187	Cement – Consistency
ASTM C188	Cement – Density
ASTM C190	Tensile Strength
ASTM C191	Set Time – Vicat
ASTM C192	Making and Curing Concrete Test Specimens in the Laboratory
ASTM C204	Cement – Fineness
ASTM C206	Specification for Finishing Hydrated Lime
ASTM C207	Specification for Hydrated Lime
ASTM C216	Specification for Facing Brick
ASTM C227	Potential Alkali Reactivity
ASTM C231	Air Content – Pressure Method
ASTM C232	Bleed Water
ASTM C233	Test Methods for Air-Entraining Admixtures for Concrete
ASTM C260	Specification for Air-Entraining Admixtures for Concrete
ASTM C266	Set Time – Gillmore
ASTM C267	Chemical Resistance
ASTM C270	Specification for Masonry Mortar
ASTM C293	Flexural Strength of Concrete (Simple Beam with Center-Point Loading)
ASTM C307	Tensile Strength
ASTM C309	Specification for Concrete Curing Compounds
ASTM C311	Test Methods for Fly Ash
ASTM C321	Bond Strength
ASTM C348	Flexural Strength
ASTM C387	Specification for Prepackaged Concrete
ASTM C403	Set Time
ASTM C413	Absorption
ASTM C418	Abrasion Resistance of Concrete by Sandblasting
ASTM C426	Shrinkage
ASTM C430	Fineness of Hydraulic Cement
ASTM C441	Alkali-Silica Reaction

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Nelson Testing Laboratories Testing Capabilities

ASTM C469	Compressive Modulus of Elasticity
ASTM C476	Specification for Masonry Grouts
ASTM C482	Bond Strength
ASTM C494	Specification for Chemical Admixtures for Concrete
ASTM C496	Splitting Tensile Strength
ASTM C497	Absorption
ASTM C501	Abrasion Resistance
ASTM C510	Staining
ASTM C531	Linear Shrinkage and Coefficient of Thermal Expansion
ASTM C535	Los Angeles Abrasion of Large-Size Aggregate
ASTM C566	Total Moisture Content of Aggregate by Drying
ASTM C557	Specifications for Adhesives for Gypsum Wallboard to Wood Framing
ASTM C579	Compressive Strength
ASTM C580	Flexural Strength and Modulus
ASTM C596	Drying Shrinkage of Mortar Containing Hydraulic Cement
ASTM C603	Extrusion Rate and Application Life of Elastomeric Sealants
ASTM C631	Bonding Compounds for Interior Gypsum Plastering
ASTM C639	Flow of Elastomeric Sealants
ASTM C642	Density, Absorption, and Voids in Hardened Concrete
ASTM C661	Hardness of Elastomeric Sealants
ASTM C666	Freeze-Thaw Resistance
ASTM C672	Salt Scaling Resistance
ASTM C679	Tack Free Time
ASTM C719	Adhesion and Cohesion of Elastomeric Joint Sealants
ASTM C733	Volume Shrinkage of Latex Sealants
ASTM C779	Abrasion Resistance
ASTM C780	Test Methods for Masonry Mortar Evaluation
ASTM C792	Heat Aging
ASTM C793	Weathering
ASTM C794	Adhesion-in-Peel
ASTM C796	Cellular Concrete
ASTM C807	Set Time - Modified Vicat
ASTM C827	Early-Age Height Change
ASTM C834	Specification for Latex Sealants
ASTM C836	Specification for Cold-Applied Elastomeric Waterproofing Membranes
ASTM C880	Flexural Strength of Dimension Stone
ASTM C881	Specification for Epoxies
ASTM C882	Slant Shear Bond Strength

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ASTM C884	Thermal Compatibility
ASTM C902	Specification for Light Traffic Paving Brick
ASTM C905	Apparent Density
ASTM C920	Specification for Elastomeric Joint Sealants
ASTM C928	Specification for Rapid Setting Repair Mortars
ASTM C932	Specification for Surface-Applied Bonding Compounds for Plastering
ASTM C939	Flow
ASTM C940	Expansion
ASTM C942	Compressive Strength
ASTM C944	Abrasion Resistance of Concrete by the Rotating-Cutter Method
ASTM C953	Set Time
ASTM C957	Specification for Cold Applied Elastomeric Waterproofing Membranes
ASTM C1012	Sulfate Resistance
ASTM C1019	Compressive Strength
ASTM C1028	Static Coefficient of Friction
ASTM C1042	Bond Strength
ASTM C1072	Flexural Bond Strength
ASTM C1090	Hardened Height Change
ASTM C1107	Cementitious Grouts
ASTM C1135	Tensile Adhesion Properties of Structural Sealants
ASTM C1138	Underwater Abrasion Resistance
ASTM C1140	Shotcrete Panels
ASTM C1152	Acid-Soluble Chloride
ASTM C1181	Compressive Creep
ASTM C1183	Extrusion Rate
ASTM C1184	Specification for Structural Silicone Sealants
ASTM C1194	Compressive Strength
ASTM C1195	Absorption
ASTM C1202	Rapid Chloride Permeability
ASTM C1218	Water-Soluble Chloride
ASTM C1246	Heat Aging
ASTM C1247	Durability of Sealants Exposed to Continuous Immersion in Liquids
ASTM C1248	Sealant – Staining
ASTM C1252	Uncompacted Voids
ASTM C1260	Alkali-Silica Reaction
ASTM C1262	Freeze-Thaw Resistance
ASTM C1272	Specification for Heavy Vehicular Paving Brick
ASTM C1293	Alkali-Silica Reaction

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Nelson Testing Laboratories Testing Capabilities

ASTM C1305	Crack Bridging
ASTM C1306	Hydrostatic Pressure
ASTM C1314	Compressive Strength of Masonry Prisms
ASTM C1315	Specification for Concrete Curing Compounds
ASTM C1324	Hardened Mortar Analysis
ASTM C1329	Mortar Cement
ASTM C1339	Effective Bearing Area
ASTM C1353	Stone - Abrasion
ASTM C1357	Flexural Bond Strength
ASTM C1364	Specification for Architectural Cast Stone
ASTM C1369	Specification for Secondary Edge Sealants
ASTM C1372	Specification for Dry Cast Segmental Retaining Wall Units
ASTM C1384	Specification for Admixtures for Masonry Mortars
ASTM C1403	Masonry Mortar – Absorption
ASTM C1437	Consistency/Flow
ASTM C1489	Lime Putty – Plasticity
ASTM C1506	Water Retention
ASTM C1522	Heat Aging of Cold Liquid-Applied Elastomeric Waterproofing Membranes
ASTM C1523	Precured Elastomeric Joint Sealants
ASTM C1542	Measuring Length of Concrete Cores
ASTM C1543	Penetration of Chloride Ion into Concrete by Ponding
ASTM C1556	Concrete - Chloride Diffusion
ASTM C1567	Alkali-Silica Reaction
ASTM C1581	Concrete Shrinkage Ring Test
ASTM C1583	Direct Tensile Strength
ASTM C1585	Rate of Absorption of Water by Hydraulic-Cement Concrete
ASTM C1610	Static Segregation of Self-Consolidating Concrete Using Column Technique
ASTM C1611	Slump/Flow of Self-Consolidating Concrete
ASTM C1621	Passing Ability of Self-Consolidating Concrete by J-Ring
ASTM C1645	Pavers - Freeze-Thaw
ASTM C1698	Autogenous Shrinkage
ASTM C1708	Test Methods for Self-Leveling Mortars
ASTM C1714	Preblended Dry Mortar Mix for Unit Masonry
ASTM C1741	Schupack Test
ASTM C1760	Bulk Electrical Conductivity
ASTM D93	Flash Point
ASTM D146	Pliability
ASTM D344	Hiding Power

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ASTM D374	Thickness
ASTM D395	Compression Set
ASTM D412	Tensile Strength and Elongation
ASTM D471	Chemical Resistance
ASTM D482	Ash Content
ASTM D522	Mandrel Bend
ASTM D523	Gloss
ASTM D543	Chemical Resistance
ASTM D545	Expansion Joint Fillers
ASTM D570	Absorption
ASTM D573	Oven Deterioration
ASTM D624	Tear Strength
ASTM D635	Rate of Burning
ASTM D638	Tensile Strength and Elongation
ASTM D648	Heat Deflection
ASTM D695	Compressive Strength
ASTM D732	Puncture Strength
ASTM D746	Brittleness
ASTM D790	Flexural Strength
ASTM D792	Density
ASTM D882	Tensile Strength and Elongation
ASTM D903	Peel Adhesion
ASTM D1002	Shear Strength
ASTM D1004	Tensile Strength
ASTM D1084	Viscosity
ASTM D1308	Spot Test
ASTM D1309	Settling Properties
ASTM D1475	Density
ASTM D1544	Color - Munsell Color Scale
ASTM D1621	Compressive Yield Strength
ASTM D1640	Dry Through Time
ASTM D1644	Non-Volatile Content
ASTM D1652	Epoxide Equivalent Weight
ASTM D1653	Water Vapor Permeability
ASTM D1709	Impact Resistance - Falling Dart
ASTM D1790	Impact Testing
ASTM D1833	Odor
ASTM D1875	Density

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**Nelson Testing Laboratories
Testing Capabilities**

ASTM D1876	Lap Peel Adhesion
ASTM D1970	Low Temperature Flexibility
ASTM D2196	Viscosity
ASTM D2240	Durometer Hardness
ASTM D2243	Coating - Freeze-Thaw Stability
ASTM D2369	Non-Volatile Content
ASTM D2370	Elongation
ASTM D2471	Peak Exotherm and Gel Time
ASTM D2566	Linear Coefficient of Shrinkage
ASTM D2621	FTIR Scan
ASTM D2697	Nonvolatile Matter in Coatings
ASTM D2794	Impact Testing
ASTM D2939	Test Methods for Protective Coatings
ASTM D3273	Fungal Resistance
ASTM D3274	Fungal Resistance
ASTM D3633	Resistivity
ASTM D3723	Pigment Content
ASTM D3767	Measurement of Dimensions
ASTM D4060	Taber Abraser
ASTM D4070	Solids
ASTM D4329	Ultraviolet (UV) Weathering
ASTM D4541	Pull Off Test
ASTM D4587	Ultraviolet (UV) Weathering
ASTM D4632	Grab Breaking Load and Elongation
ASTM D4751	Opening Size
ASTM D4878	Viscosity
ASTM D5095	Non-Volatile Content
ASTM D5199	Geotextile - Width Thickness
ASTM D5249	Specification for Backer Material with Joint Sealants
ASTM D5385	Hydrostatic Pressure
ASTM D5590	Resistance to Fungal Displacement
ASTM D5628	Impact Testing
ASTM D5893	Specification for Single Component Silicone Joint Sealant
ASTM D5957	Flood Test
ASTM D6490	Water Vapor Transmission of Non-Film Forming Treatment
ASTM D6511	Solvent Bearing Bituminous Compounds
ASTM D6532	Water Absorption
ASTM D6578	Graffiti Resistance

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Nelson Testing Laboratories Testing Capabilities

ASTM D6695	Xenon Arc Weathering
ASTM D6904	Wind-Driven Rain
ASTM D7088	Hydrostatic Pressure
ASTM D7089	Anti-Graffiti
ASTM D7234	Pull Off Test - Concrete
ASTM D7868	Dry Fall Properties
ASTM D8139	Specification for Expansion Joint Fillers
ASTM D968	Abrasion Resistance of Organic Coatings by Falling Abrasive
ASTM E96	Water Vapor Permeance
ASTM E488	Pull Out Strength
ASTM E514	Water Penetration of Masonry
ASTM E1252	FT-IR Scan
ASTM F710	pH
ASTM F1869	Moisture Vapor Emission Rate
ASTM G20	Chemical Resistance of Pipeline Coatings
ASTM G42	Cathodic Disbonding of Pipeline Coatings
ASTM G109	Corrosion
ASTM G154	Accelerated Weathering (UV)
ASTM G155	Accelerated Weathering (Xenon-Arc)
California Test 419	Creep
California Test 551	Overlayment Bond Strength
CSA-A3009	Flexural Bond Strength of Masonry Mortar
CRD-C 164	Direct Bond Strength
CRD-C 302	Moisture Loss of Curing Compound
CRD-C 39	Linear Coefficient of Shrinkage
CRD-C 48	Water Penetration Testing
CRD-C 61	Anti-Washout
CRD-C 311	Drying Time
CRD-C 661	Specification for Antiwashout Admixtures
DIN 1048	Water Penetration Testing
EN 445	Inclined Tube
ICRI 320.3	Inorganic Repair Material Data Sheet Protocol
NCHRP Report 244	Series II - Concrete Sealers – Absorption and Water Vapor Transmission
NCHRP Report 244	Series IV - Concrete Sealers – Accelerated Weathering
PTI M55.1-19	Specification for Post-Tensioned Grout

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