

Miami-Dade County, Florida

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES

BOARD AND CODE ADMINISTRATION DIVISION

PRODUCT CONTROL SECTION

11805 S.W. 26 Street-Room 208

Miami, Florida 33175-2474

T (786) 315-2590 Fax (786) 315-2599

Laboratory Certificate



This certifies that Hydro Environmental Products Corporation d/b/a Nelson Testing Laboratories located at 717 North Industrial Drive, Elmhurst, IL 60126 is an approved Testing Laboratory in accordance with Miami-Dade County Department of Regulatory and Economic Resources and Protocol TAS301-94, and is Certified to perform the following tests:

Listed in: American Association for Laboratory
Accreditation: Certificate No. 6045.01

Results of the above mentioned test shall be properly submitted to the Miami-Dade County Department of Regulatory and Economic Resources per TAS301-94, along with all other documentation required for the approval of products. Approved engineer(s) for this laboratory.

Walter Theodore Jr. Holz, P.E.

This Certification and Registration Approved: April 21, 2022

This Certification and Registration Expires : April 21, 2027

Certification No. : 22-0411.01

A handwritten signature in blue ink, appearing to read "Helmy A. Makar".

Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
Product Control Section

A handwritten signature in blue ink, appearing to read "Americo Segura".

Americo Segura, M.S., CGC
Quality Assurance Unit Supervisor
Product Control Section

The Miami-Dade County Department of Regulatory and Economic Resources reserves the right to remove this certification for non-compliance with rules and regulations as set by Protocol TAS301-94



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

NELSON TESTING LABORATORIES
717 N. Industrial Drive
Elmhurst, IL 60126
Mark Nelson Phone: 630-501-0230

Valid To: December 31, 2022

Certificate Number: 6045.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory for:

CONSTRUCTION MATERIALS ENGINEERING

- ASTM: C1093 (Standard Practice for Accreditation of Testing Agencies for Masonry);
E329 (Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection);
- AASHTO: R18 (Practice for Establishing and Implementing a Quality Management System for Construction Materials Testing Laboratories)

CONSTRUCTION MATERIALS TESTING

<u>Test Method:</u>	<u>Test Description:</u>
Brick	
ASTM C216*	Facing Brick (Solid Masonry Units made from Clay or Shale)
ASTM C67 (Sections 6,7,8,9,10,11)	Sampling and Testing Brick and Structural Clay Tile
Dimension stone	
ASTM C97	Absorption and Bulk Specific Gravity of Dimension Stone
ASTM C99	Modulus of Rupture of Dimension Stone
ASTM C170/C170M	Compressive Strength of Dimension Stone
ASTM C880	Flexural Strength of Dimension Stone
Masonry Mortars	
ASTM C270*	Mortar for Unit Masonry
ASTM C387*	Packaged, Dry, Combined Materials for Mortar and Concrete
ASTM C1329*	Mortar Cement
ASTM C1072	Measurement of Masonry Flexural Bond Strength
ASTM C1314	Compressive Strength of Masonry Prisms
ASTM C1714	Preblended Dry Mortar Mix for Unit Masonry
Masonry Grouts	
ASTM C476*	Grout for Masonry
ASTM C1019	Sampling and Testing Grout

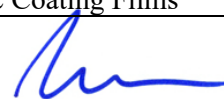
(A2LA Cert. No. 6045.01) Revised 09/16/2021

Page 1 of 5

Lime	
ASTM C206*	Finishing Hydrated Lime
ASTM C207*	Hydrated Lime for Masonry Purposes
ASTM C110	Physical Testing of Quicklime, Hydrated Lime and Limestone
ASTM C151	Autoclave Expansion of Hydraulic Cement
Water Penetration Wall Testing	
ASTM E514	Water Penetration and Leakage Through Masonry
Cementitious Grouts	
ASTM C1107*	Packaged Dry, Hydraulic-Cement Grout (Nonshrink)
ASTM C827	Change in Height at Early Ages of Cylindrical Specimens of Cementitious Mixtures
ASTM C939	Flow of Grout for Preplaced-Aggregate Concrete (Flow Cone Method)
ASTM C1090	Measuring Changes in Height of Cylindrical Specimens of Hydraulic-Cement Grout
Cementitious Repair Mortars	
ASTM C928*	Packaged, Dry, Rapid-Hardening Cementitious Materials for Concrete Repairs
ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
ASTM C109	Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50-mm] Cube Specimens)
ASTM C157	Length Change of Hardened Hydraulic-Cement Mortar and Concrete
ASTM C191	Time of Setting of Hydraulic Cement by Vicat Needle
ASTM C267	Chemical Resistance of Mortars, Grouts, and Monolithic Surfacing and Polymer Concretes
ASTM C348	Flexural Strength of Hydraulic-Cement Mortars
ASTM C469	Static Modulus of Elasticity and Poisson's Ratio of Concrete in Compression
ASTM C496	Splitting Tensile Strength of Cylindrical Concrete Specimens
ASTM C666	Resistance of Concrete to Rapid Freezing and Thawing
ASTM C882	Bond Strength of Epoxy-Resin Systems Used With Concrete By Slant Shear
ASTM C1202	Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration
ASTM C1581	Determining Age at Cracking and Induced Tensile Stress Characteristics of Mortar and Concrete under Restrained Shrinkage
ASTM C1583	Tensile Strength of Concrete Surfaces and the Bond Strength or Tensile Strength of Concrete Repair and Overlay Materials by Direct Tension (Pull-off Method)
AASHTO T358	Surface Resistivity Indication of Concrete's Ability to Resist Chloride Ion Penetration
Concrete Admixtures	
ASTM C260*	Air-Entraining Admixtures for Concrete
ASTM C494*	Chemical Admixtures for Concrete
Concrete Sealers	
AASHTO T259	Resistance of Concrete to Chloride Ion Penetration
AASHTO T260	Sampling and Testing for Chloride Ion in Concrete and Concrete Raw Materials



Concrete Sealers (cont.)	
ASTM C672	Scaling Resistance of Concrete Surfaces Exposed to Deicing Chemicals
ASTM C1152	Acid-Soluble Chloride in Mortar and Concrete
ASTM C1218	Water-Soluble Chloride in Mortar and Concrete
ASTM C1543	Penetration of Chloride Ion into Concrete by Ponding
ASTM C1585	Rate of Absorption of Water by Hydraulic-Cement Concretes
ASTM D6490	Water Vapor Transmission of NonFilm Forming Treatment Used on Cementitious Panels
ASTM E96	Water Vapor Transmission of Materials
Curing Compounds	
ASTM C309*	Liquid Membrane-Forming Compounds for Curing Concrete
ASTM C1315*	Liquid Membrane-Forming Compounds Having Special Properties for Curing and Sealing Concrete
ASTM C156	Water Loss [from a Mortar Specimen] Through Liquid Membrane-Forming Curing Compounds for Concrete
ASTM C309	Liquid Membrane-Forming Compounds for Curing Concrete
ASTM D1309	Settling Properties of Traffic Paints During Storage
ASTM D2369	Volatile Content of Coatings
Epoxy Grouts	
ASTM C307	Tensile Strength of Chemical-Resistant Mortar, Grouts, and Monolithic Surfacing
ASTM C531	Linear Shrinkage and Coefficient of Thermal Expansion of Chemical-Resistant Mortars, Grouts, Monolithic Surfacing, and Polymer Concretes
ASTM C579	Compressive Strength of Chemical-Resistant Mortars, Grouts, Monolithic Surfacing, and Polymer Concretes
ASTM C580	Flexural Strength and Modulus of Elasticity of Chemical-Resistant Mortars, Grouts, Monolithic Surfacing, and Polymer Concretes
ASTM C884	Thermal Compatibility Between Concrete and an Epoxy-Resin Overlay
ASTM C1181	Compressive Creep of Chemical-Resistant Polymer Machinery Grouts
Epoxies	
ASTM C881 (11,12)*	Epoxy-Resin-Base Bonding Systems for Concrete
ASTM C882	Bond Strength of Epoxy-Resin Systems Used with Concrete By Slant Shear
ASTM D570	Water Absorption of Plastics
ASTM D638	Tensile Properties of Plastics
ASTM D648	Deflection Temperature of Plastics Under Flexural Load in the Edgewise Position
ASTM D695	Compressive Properties of Rigid Plastics
ASTM D2196	Rheological Properties of Non-Newtonian Materials by Rotational Viscometer
ASTM D2240	Rubber Property-Durometer Hardness
ASTM D4060	Abrasion Resistance of Organic Coatings by the Taber Abraser
Exterior Coatings	
ASTM D412	Vulcanized Rubber and Thermoplastic Elastomers – Tension
ASTM D968	Abrasion Resistance of Organic Coatings by Falling Abrasive
ASTM D1653	Water Vapor Transmission of Organic Coating Films



Exterior Coatings (cont.)	
ASTM D2697	Volume Nonvolatile Matter in Clear or Pigmented Coatings
ASTM D4541	Pull-Off Strength of Coatings Using Portable Adhesion Testers
ASTM D6532	Evaluation of the Effect of Clear Water Repellent Treatments on Water Absorption of Hydraulic Cement Mortar Specimens
ASTM D6578	Determination of Graffiti Resistance
ASTM D6904	Resistance to Wind-Driven Rain for Exterior Coatings Applied on Masonry
ASTM D7234	Pull-Off Adhesion Strength of Coatings on Concrete Using Portable Pull-Off Adhesion Testers
ASTM G154	Operating Fluorescent Ultraviolet (UV) Lamp Apparatus for Exposure of Nonmetallic Materials
ASTM G155	Operating Xeon Arc Light Apparatus for Exposure of Non-Metallic Materials
Joint Sealants	
ASTM C920*	Standard Specification for Elastomeric Joint Sealants
ASTM C1184*	Structural Silicone Sealants
ASTM C510	Staining and Color Change of Single- or Multicomponent Joint Sealants
ASTM C603	Extrusion Rate and Application Life of Elastomeric Sealants
ASTM C639	Rheological (Flow) Properties of Elastomeric Sealants
ASTM C661	Indentation Hardness of Elastomeric-Type Sealants by Means of a Durometer
ASTM C679	Tack-Free Time of Elastomeric Sealants
ASTM C719	Adhesion and Cohesion of Elastomeric Joint Sealants Under Cyclic Movement (Hockman Cycle)
ASTM C792	Effects of Heat Aging on Weight Loss, Cracking, and Chalking of Elastomeric Sealants
ASTM C793	Effects of Laboratory Accelerated Weathering on Elastomeric Joint Sealants
ASTM C794	Adhesion-in-Peel of Elastomeric Joint Sealants
ASTM C1135	Determining Tensile Adhesion Properties of Structural Sealants
ASTM C1183	Extrusion Rate of Elastomeric Sealants
ASTM C1246	Effects of Heat Aging on Weight Loss, Cracking, and Chalking of Elastomeric Sealants After Cure
ASTM C1247	Durability of Sealants Exposed to Continuous Immersion in Liquids
ASTM C1523	Determining Modulus, Tear and Adhesion Properties of Precured Elastomeric Joint Sealants
Waterproofing Materials	
ASTM C836*	High Solids Content, Cold Liquid-Applied Elastomeric Waterproofing Membrane for Use with Separate Wearing Course
ASTM C1305	Crack Bridging Ability of Liquid-Applied Waterproofing Membrane
ASTM C1522	Extensibility After Heat Aging of Cold Liquid-Applied Elastomeric Waterproofing Membranes
ASTM D5385	Hydrostatic Pressure Resistance of Waterproofing Membranes
ASTM D6511	Solvent Bearing Bituminous Compounds
CRD-C48	Water Permeability of Concrete
EN/DIN 1048	Testing of Hardened Concrete

Thin Set Tile Mortar	
ANSI A118.4	Test Methods and Physical Properties for Ceramic Tile Installation Materials
ANSI A118.10	Load Bearing, Bonded, Waterproof Membranes for Thin-set Ceramic Tile and Dimension Stone Installation
ANSI A118.12	CRACK ISOLATION MEMBRANES FOR THIN-SET CERAMIC TILE AND DIMENSION STONE INSTALLATIONS
ANSI A118.15	Improved Modified Dry-Set Cement Mortar (improved modified mortar).
ANSI A136.1	Organic Adhesives for Installation of Ceramic Tile.

*The laboratory is accredited for the test methods listed above. The accredited test methods are used in determining compliance with the material specifications listed; however, the inclusion of these material specifications on this Scope does not confer laboratory accreditation to the material specifications. Inclusion of these material specifications on this Scope also does not confer accreditation for every method embedded within the specification. Only the methods listed above on this Scope are accredited.”



Accredited Laboratory

A2LA has accredited

NELSON TESTING LABORATORIES

Elmhurst, IL

for technical competence in the field of

Construction Materials Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 11th day of December 2020.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 6045.01
Valid to December 31, 2022

For the tests to which this accreditation applies, please refer to the laboratory's Construction Materials Scope of Accreditation.