

CMC

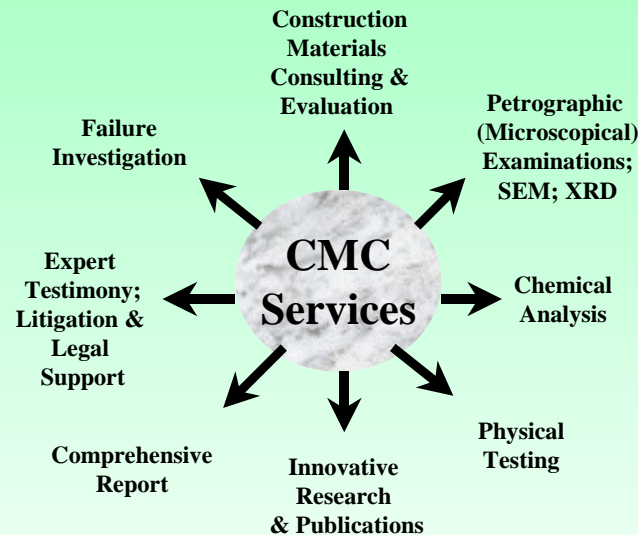
**Construction Materials
Consultants, Inc.**

**STONE & TILE
DIVISION**

www.cmc-concrete.com

BENEFITS

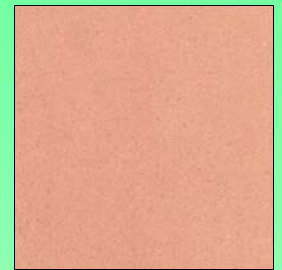
- Comprehensive Professional Report
- Competitive Cost and Turnaround
- Integrated Scientific Approach
- Years of Experience in Materials Evaluation and Failure Investigation
- Active Involvement in Construction Technology
- Industry Reputation
- State-of-the-art Laboratory Facilities
- Comprehensive and Dependable Services
- CMC Seminars, Publications, and Newsletters



Visit Us Online At:

www.cmc-concrete.com

For a Detailed List of Services &
Many Downloadable Information Sheets.



Top Left = Polished Granite; Top Right = Red Sandstone; Middle Left = Terrazzo De-Bonding; Middle Right = Vinyl Tile De-Bonding; Bottom Left = Coquina (Seashell Limestone); Bottom Right = Terrazzo Floor Tile (Marble Chips in White Portland Cement).

Cover Photo = Carrara Marble

**CMC
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For information about other testing,
evaluation, and consulting services,
please visit us online at:

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CMC

Construction Materials Consultants, Inc.

Stone & Tile Division

CMC, Construction Materials Consultants, Inc., is a reputable, full-service, independent consulting and testing firm dedicated to providing services to the cement, aggregate, concrete, masonry, mortar, stone, and tile industries.

For manufacturers, distributors, and wholesale retailers of dimension stones, ceramic tile, quarry tile, vinyl tile, stone tile, and terrazzo, the **Stone and Tile Division** of CMC has the knowledge, experience, skill, facilities, and equipment to provide a variety of industry-recommended standard tests for quality assurance of your stone or tile products.

What sets CMC apart from other "testing firms" is the expertise in failure investigation of various stone and tile problems in the field. CMC has years of experience in investigating whether or not a particular distress is related to materials, installation practices, design, moisture, or environment. CMC offers services to contractors, insurance companies, law firms, architectural firms, engineering firms, and homeowners for investigation of various field problems related to natural stone, dimension stone, ceramic tile, vinyl tile, quarry tile, and terrazzo floor tile.

Following are some commonly requested laboratory tests and failure investigations. Call us with your questions or concerns. We will be more than happy to help you!

LABORATORY TESTS FOR QUALITY ASSURANCE

NATURAL, BUILDING & DIMENSION STONES

- Specifications for Limestone, Marble, Granite, Quartz-Based Stone, Slate, & Roofing Slate (ASTM C 119, 406, 503, 568, 615, 616, 629)
- Terminology (ASTM C 119)
- Abrasion Resistance (ASTM C 241)
- Absorption & Specific Gravity (ASTM C 97, C 121)
- Freeze-Thaw Durability (ASTM C 666)
- Petrographic Examinations (ASTM C 295)
- Compressive Strength (ASTM C 170)
- Flexural Strength (ASTM C 120, C 880)
- Modulus of Rupture (ASTM C 99, C 120)
- Weather Resistance (ASTM C 217)
- Evaluation of conformance to the specifications of limestone, marble, granite, quartz-based stone, & slate.
- Accelerated Weathering

CERAMIC & OTHER TILES

- Slip Resistance (Static Coefficient of Friction ASTM C 1028)
- Abrasive Hardness (ASTM C 501)
- Bond Strength (ASTM C 482)
- Breaking Strength (ASTM C 648)
- Chemical Test (ASTM C 650)
- Crazeing (ASTM C 424)
- Facial Dimension (ASTM C 499)
- Flexural Strength (ASTM C 674)
- Freeze-Thaw (ASTM C 1026)
- Impact Test (ASTM C 368)
- Mohs Hardness
- Moisture Expansion (ASTM C 370)
- Robinson Test (ASTM C 627)
- Stain Test (CTI-T-72)
- Thermal Shock (ASTM C 484)
- Thickness (ASTM C 499)
- Warpage (Flatness, ASTM C 485)
- Water Absorption (ASTM C 373)
- Wedging (Squareness, ASTM C 502)

FAILURE INVESTIGATION

- Cracking
- De-Bonding
- Field Survey of Tile or Stone De-Bonding
- Discoloration, Staining
- Bumps & Blisters
- Dusting, Fracturing, Disintegration
- Curling, Dishing, Bowing
- Thermal Expansion
- Moisture-Related Damage
- Cyclic Freezing-Related Damage

DIAGNOSING FAILURE BY

- Field Reconnaissance
- Petrographic Examinations
- Miscellaneous Chemical Analysis
- Miscellaneous Physical Tests
- Accelerated Weathering Tests
- Miscellaneous Project-Related Investigations

OUR CLIENTS

- Manufacturers, Distributors, Retailers
- Contractors, Installers
- Homeowners
- Testing & Consulting Companies
- Engineering Firms
- Architectural Firms
- TCA, MIA Member Firms
- Insurance Firms
- Law Firms—Expert Testimony in Litigation