

Strataflex® Waterproofing Membrane

Section: 09305

TILE SETTING MATERIALS & ACCESSORIES

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes: Tile setting materials and accessories, including sound control, waterproofing and anti-fracture/crack isolation membrane systems.

B. Related Sections: Section(s) related to this section include:

1. Concrete floor finishing: Division 3 Concrete sections.
2. Expansion or control joints and components: Division 5 Metal sections and Division 9 Flooring sections.
3. Joint Sealers: Division 7 Joint Sealers sections.
4. Tile or stone materials: Division 9 Tile & Stone Flooring.
5. Plumbing Specialties, floor drains and fixtures: Division 15 Mechanical sections.
6. Pan receptors and piping: Division 15 Mechanical sections.

1.02 REFERENCES

A. American National Standards Associations (ANSI) Installation Specifications

1. A 108.1C - 1999 [Reaffirmed 2016] Ceramic tile installed in a mortar bed
2. A 108.4 - 2009 Ceramic tile installed with organic adhesive or water cleanable tile-setting epoxy adhesive
3. A 108.5 - 1999 [Reaffirmed 2010] Ceramic tile installed with dry-set Portland cement or latex Portland cement
4. A 108.6 - 1999 [Reaffirmed 2010] Ceramic tile installed with chemical resistant, water cleanable tile setting and grout epoxy
5. A 108.9 - 1999 [Reaffirmed 2010] Ceramic tile installed with modified epoxy emulsion mortar/grout

B. American National Standards Associations (ANSI) Material Specifications

1. A 118.3 - 2013 Chemical Resistant, Water Cleanable Tile-Setting and Grouting Epoxy
2. A 118.4 - 2018 Modified Dry-Set Cement Mortar
3. A 118.5 - 1999 [Reaffirmed 2016] Chemical Resistant Furan mortars and grouts
4. A118.10 - 2014 Load bearing, bonded waterproof membranes for thin-set stone and ceramic tile installations
5. A118.12 - 2014 Crack Isolation Membranes for thin-set ceramic tile and stone installations

C. American Society for Testing of Material (ASTM) Specifications

1. C-627-93(2007) Evaluating ceramic floor tile installation systems
2. C-482 Shear/Bond
3. D-583 Water vapor transmission test
4. D-146 Tensile MD and Tensile CD
5. D-36 Penetration

D. Tile Council of North America (TCNA):

1. TCNA Handbook for Ceramic Tile Installation, latest edition, using ANSI 118.4 latex Portland cement mortar.

1.03 SYSTEM DESCRIPTION

A. Performance Requirements: Provide waterproofing and anti-fracture/crack suppression membrane, which has been manufactured to withstand 3/8" horizontal, structural movement of the substrate.

1.04 SUBMITTALS

A. General: Submit listed submittals in accordance with conditions of the Contract and Division 1 Submittal Procedures Section.

B. Product Data: Submit product data including manufacturer's product sheet, for specified products.

C. Samples: Submit selection and verification samples.

D. Quality Assurance Submittals: Submit the following:

1. Test Reports: Certified test reports showing compliance with specified performance characteristics and physical properties.
2. Certificates: Product certificates signed by the manufacturer certifying materials comply with specified performance characteristics and physical requirements.
3. Manufacturer's Instructions: Manufacturer's installation instructions.
4. Manufacturer's Field Reports: Manufacturer's field reports.

E. Closeout Submittals: Submit the following:

1. Warranty: Warranty documents specified herein.

1.05 QUALITY ASSURANCE

A. Installer Qualifications: A professional tile or flooring contractor should perform the work of this section.

B. Pre-Installation Meetings: Conduct pre-installation meeting to verify project requirements, substrate conditions, manufacturer's installation instructions and manufacturer's warranty requirements. Comply with Division 1 Project Management and Coordination, Project Meetings Section.

1.06 DELIVERY, STORAGE AND HANDLING

A. General: Comply with Division 1 Product Requirements Sections.

B. Ordering: Comply with manufacturer's ordering instructions and lead-time requirements to avoid construction delays.

C. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.

D. Storage and Protection: Store materials protected from exposure to harmful weather conditions and at temperature between 35°- 95° F as recommended by manufacturer.

1. Traffic: The membrane must be protected with minimum 1/4" plywood or heavy sheeting during construction.
2. Leave a minimum of a 4" overlap to continue a new section of membrane at a later date. Protect the exposed section of membrane by taping heavy craft paper over it.

1.07 PROJECT/SITE CONDITIONS

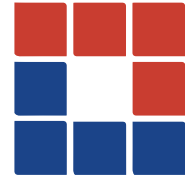
A. Substrate must be dry and temperature above 65°F when applying primer and membrane.

B. Concrete sub-floors must be structurally sound, clean, level, free of holes, projections, free of moisture, sealers, or any material that would interfere with a good bond.

C. Wood sub-floors must consist of joist spacing no more than 16" on-center, and a double sub-floor consisting of a minimum of 5/8" thick for each. A gap is required between edges of the wood sheets.

D. Existing floors made up of ceramic, terrazzo, marble, vinyl and painted floors must be structurally sound, stripped of waxes and sealers, before application of membrane.

E. Deflection of substrate must not exceed L/360 on live or dead loads with a maximum variation of 1/4" in 10'.



1.08 WARRANTY

A. National Applied Construction Products, Inc. offers a wide range of Performance and Materials Warranties. Please contact Customer Service for details at 800.633.4622 or visit www.NACproducts.com for more information on warranties.

1.09 MAINTENANCE

A. After installation, tile must be protected from heavy construction equipment: i.e. fork lifts, dry wall carts etc. A non-tiled path is recommended for heavy equipment.

PART 2 PRODUCTS

2.01 TILE SETTING MATERIALS AND ACCESSORIES

A. Manufacturer: National Applied Construction Products, Inc.

1. Contact: 3200 S. Main St. Akron, OH 44319; Telephone: (800) 633-4622 or (330) 644-3117; Fax: (330) 644-3557

B. Proprietary Product: Strataflex® "Waterproofing and Crack Isolation" Membrane

1. Membrane: 40 + 5 mil thick load bearing membrane, capable of withstanding 3/8" horizontal structural crack and joint movement
2. Waterproofing Self-adhering, pressure sensitive formulation
3. Full Floor Coverage with 2" double stick lap joint and seam tape or sealant application.

2.02 EXISTING MATERIALS

A. Compatible with most latex modified thin-set mortars, epoxies and adhesives.

B. Adhesive residue from carpet, vinyl tile, linoleum and elastomeric membrane systems must be ground and shot blasted leaving minimal residue. A bond test must be conducted on a location to location and job by job basis.

2.03 EQUIPMENT

A. Damp mop, industrial vacuum, chalk line, 75-100# roller or flat trowel, short nap paint roller or brush, hook or razor knife.

2.04 ACCESSORIES

A. NAC TAC, NAC TAC II primer for interior applications or NAC TAC or NS97 primer for exterior/wet area applications.

B. Seam and Corner Tape is to be applied underneath where membrane is butt-joined and corners

C. Preformed Inside and Outside Corners are also available

D. MOISTURE LOCK 101® on absorptive substrates

E. NAC approved urethane sealant required over membrane butt-joints and perimeters or other cut areas.

F. Tile Bond Coat meeting ANSI A118.4

2.05 SOURCE OF QUALITY CONTROL

A. Vapor Test: Where moisture is present, a vapor test is required

B. Water Test: A water test 48 hours prior to installation of tile is recommended for shower bases and other areas subject to prolonged water exposure.

PART 3 EXECUTION

3.01 ACCEPTABLE INSTALLERS

A. Installer Qualifications: A professional tile or flooring contractor should perform the work of this section.

3.02 EXAMINATION

A. Site Verifications of Conditions: Verify substrate conditions are acceptable for product installation in accordance with manufacturer's instructions.

1. Verify substrate for conditions of the project.
2. Verify surfaces are ready to receive work and comply with TCNA Handbook, Installation Methods.
3. Confirm location of expansion or control joints required and details provided on the drawings.

3.03 PREPARATION

A. Protection

1. Keep area well ventilated when applying NS97 primer.
2. Wear safety glasses, protective gloves and clothing when handling the primers and accessory products.
3. Refer to the safety data sheet for further details.

B. Surface Preparation

1. Substrate must be dry and temperature above 65°F when applying primer and membrane.
2. Concrete sub-floors must be structurally sound, clean, level, free of holes and projections, free of moisture, sealers, or anything that would interfere with a good bond.
3. Wood sub-floors must consist of joist spacing no more than 16" on-center, and a double sub-floor consisting of a minimum of 5/8" thick for each. A gap is required between the edges of the wood sheets.
4. Existing floors made up of ceramic, terrazzo, marble, vinyl and painted floors must be structurally sound, stripped of waxes and sealers, before application of membrane.
5. Deflection of substrate must not exceed L/360 on live or dead loads with a maximum variation of 1/4" in 10'.

3.04 FIELD QUALITY CONTROL

A. Field Evaluations are performed upon request.

3.05 CLEANING

A. Membrane can be swept with a broom or vacuum.

END OF SECTION



National Applied Construction Products, Inc.

3200 South Main St. Akron, OH 44319

www.NACproducts.com

800.633.4622 • fax: 330.644.3557

©2020 NAC Products, Inc. All Rights Reserved Rev. 7/20