

NA 1740



North American ADHESIVES®

Waterproofing and Crack-Isolation Membrane



GOOD	BETTER	BEST
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PRODUCT DESCRIPTION

NA 1740 is a premixed, fast-drying, liquid-applied waterproofing and crack-isolation membrane for installation under ceramic tile or stone in residential, commercial and industrial environments. NA 1740 provides a thin, continuous barrier to protect adjacent rooms and floors below from water damage. NA 1740 can be applied with a roller or brush and is ready to receive tile or stone after 30 to 50 minutes of drying time. Ceramic tile or stone can be installed with any NAA polymer-modified or epoxy mortar. For common problem areas like coves, corners, cracks and drains, it can be combined with optional NA 1750 reinforcing fabric to provide additional protection.

NA 1740 can be flood-tested after 12 hours of drying time, and exceeds ANSI A118.10 and ANSI A118.12 standards. NA 1740 has no odor and is great for use in confined spaces.

USES (When Completely Covered by Ceramic Tile or Stone)

	Indoor			Outdoor		
	Floors	Walls	Ceilings	Floors	Walls	Ceilings
Residential	✓	✓	✓	✓*	✓	✓
Commercial	✓	✓	✓	✓	✓	✓
Industrial	✓	✓				

	Tub & Shower Surrounds, Shower Pans	Bathrooms, Kitchens, Countertops	Laundry Rooms
	Floors, Walls, Ceilings	Floors, Walls, Ceilings	Floors, Walls, Ceilings
Residential	✓	✓	✓
Commercial	✓	✓	✓

* Also balconies and decks over unoccupied space.

- Residential and commercial submerged applications: freshwater pools, fountains and water features (completely covered by ceramic tile)
- Cantilevered balconies and decks over unoccupied space (see the "Limitations" section)
- Balconies and decks over occupied space when used in conjunction with a primary waterproofing membrane
- Steam rooms when used in conjunction with a vapor barrier (refer to TCA Handbook's sections SR613 and SR614 or TTMAC 321SR)
- In-plane crack isolation up to 1/8" (3 mm) over nonstructural cracks
- NA 1750 reinforcing fabric is available but optional for use on coves, corners and field application.

TECHNICAL QUICK REFERENCE

Exceeds ANSI A118.10 standard (Waterproofing Membranes for Thin-Set Ceramic Tile). Exceeds ANSI A118.12 standard (Crack-Isolation Membranes for Thin-Set Ceramic Tile). ASTM C627 (Robinson) extra heavy service rating.

Product characteristics at 73°F (23°C) and 50% relative humidity	
Drying time between first and second coats	When dark green and dry to the touch
Drying time after second coat (before applying ceramic tile or stone)	About 30 to 50 minutes (when dark green and dry to the touch)
Drying time before flood testing	After 12 hours at 73°F (23°C) and 50% relative humidity
Final dry thickness (2 coats)	About 20 mils or 0,5 mm minimum (about credit-card thickness)
Viscosity	Approximately 30,000 cps
Density	1.3 g per mL
Weight	10.9 lbs. per U.S. gal. (1,3 kg per L)
Shelf life (NA 1740)	2 years when stored in original unopened container
Shelf life (optional NA 1750 reinforcing fabric)	Unlimited (when stored in original unopened box)
Flash point (Seta flash)	Nonflammable
Color	Medium green when wet; dark green when dry
Freeze/thaw stability (liquid)	Up to 5 cycles at 32°F (0°C)
Storage	Store in cool, dry place. Protect from freezing.

PACKAGING

- NA 1740 (#01953125)Pail: 1 U.S. gal. (3,79 L) – 4-pack
- NA 1740 (#01968125)Pail: 5 U.S. gals. (18,9 L)
- NA 1750 (#01709125)6" x 75' (15 cm x 22,9 m) roll, 8 per box – To reinforce over cracks, control joints, corners, coves and floor/wall penetrations
- NA 1750 (#01707125)38" x 75' (97 cm x 22,9 m) roll, 1 per box – To reinforce around drains or main area to be waterproofed

APPROXIMATE COVERAGE* (per 2 coats where applicable)

- 1 U.S. gal. (3,79 L) – 4-pack 60 sq. ft. (5,57 m²)
- 5 U.S. gals. (18,9 L) 300 sq. ft. (27,9 m²)
- 6" x 75' (15 cm x 22,9 m) roll 37.5 sq. ft. (3,48 m²)
- 38" x 75' (97 cm x 22,9 m) roll 237.5 sq. ft. (22,1 m²)

* Coverages shown are for estimating purposes only. Actual jobsite coverages may vary according to substrate conditions, concrete profile and porosity, type of equipment used, thickness applied, handling and application procedures.

SUBSTRATE REQUIREMENTS

- Before beginning, consult the “Surface Preparation Requirements” document for tile and stone installation systems at na-adhesives.com.
- Substrate and room temperatures must be 45°F to 95°F (7°C to 35°C) during and at least 24 hours after application.
- Substrates must be in accordance with ANSI A108.5 current standards and recommendations. All supporting surfaces must be structurally sound. The surface area that will receive tile must be dry, clean and free of dust, oil, grease, tar, paint, wax, curing agents, primers, sealers, release agents, existing adhesives and any other substance that can weaken the mortar’s bond to the substrate. If the surface contains these substances, they must be mechanically removed.
- Do not use chemicals (acid etching or stripping) to prepare approved substrates.
- Concrete substrates should have a Concrete Surface Profile #2 per ICRI (International Concrete Repair Institute). Mechanically clean and profile by diamond-cup grinding or other engineer-approved method when necessary.

SUBSTRATE REQUIREMENTS

Interior and Exterior

- Fully cured concrete at least 28 days old (see “Limitations”)
- Masonry walls of cement block or brick
- Cured cement mortar beds
- Cement backer units (CBUs)

Interior Only

- Cement leveling coats
- Gypsum wallboard (walls only, in approved application areas only)
- Properly prepared radiant-heated substrates
- Properly prepared unglazed ceramic tile and cement terrazzo floors, and gypsum underlayments.

Note: Existing unglazed ceramic tile must be abraded, and existing cement terrazzo must be mechanically profiled. Both must be skimcoated with an appropriate NAA latex- or polymer-modified mortar.

- Exterior-grade plywood (for interior residential floors and countertops in dry areas only)
- PVC, copper, brass and stainless steel pipe penetrations (abraded)

Tile Council of North America (TCNA) Statement on Deflection Criteria

Floor systems, including the framing system and subfloor panels, over which tile will be installed should be in conformance with the IRC [International Residential Code] for residential applications, the IBC [International Building Code] for commercial applications, or applicable building codes.

Note: The owner should communicate in writing to the project design professional and general contractor the “intended use” of the tile installation, in order to enable the project design professional and general contractor to make necessary allowances for the expected live load, concentrated loads, impact loads, and dead loads including the weight of the tile and setting bed. The tile installer shall not be responsible for any floor framing or subfloor installation not compliant with applicable building codes, unless the tile installer or tile contractor designs and installs the floor framing or subfloor.

Consult Technical Services for installation recommendations regarding substrates and conditions not listed.

LIMITATIONS

- Not for use over structural cracks, in-plane cracks beyond 1/8" (3 mm) or where vertical out-of-plane movement occurs.
- Do not use over substrates containing asbestos, dimensionally unstable substrates such as hardwood flooring, particleboard, oriented strand board (OSB), Masonite or metal. See suitable substrates above.
- **Do not use over:** plank flooring, treated plywood, Luaun, gypsum-based floor-patching or leveling compounds, vinyl, glazed tile, laminate, fiberglass or epoxy floors, or storage tanks.
- Do not use where excessive substrate moisture and/or where negative hydrostatic pressure exists. Maximum allowable moisture is 5 lbs. per 1,000 sq. ft. (2,27 kg per 92,9 m²) per 24 hours per ASTM F1869 or up to 75% relative humidity as measured with moisture probes.
- Do not use as a single-application roof-deck membrane, wear surface or primary waterproofing membrane on balconies or decks directly over occupied space or in storage tanks.
- Do not allow direct contact with solvent-based materials or premixed adhesives.

MIXING

1. Choose suitable safety equipment before mixing and use.
2. Mix by hand before using.
3. Do not dilute with any other material.
4. Promptly wash tools with water after mixing.

See the Material Safety Data Sheet (MSDS) for NA 1740 at na-adhesives.com for additional information.

APPLICATION

- Fill all cracks, control joints and gaps in corners and coves that are greater than 1/32" (1 mm) with an appropriate filler material. Force material into crack and finish smooth with trowel. Let dry.
- Optional NA 1750 reinforcing fabric may be used with NA 1740 in any of the areas shown below (see the section “Optional Use of NAA’s NA 1750 reinforcing fabric”).

Pre-treat cracks, corners and coves (floor/wall intersections)

1. For expansion and control joints, see the section “Expansion and Control Joints.”
2. Apply NA 1740 liquid 6" (15 cm) on both sides of cracks, corners and coves with a paintbrush or roller. Let dry to a dark green color.
3. Apply a second coat and let dry.

Pre-treat drains

1. Review drain manufacturer’s instructions for waterproof membrane installation in conjunction with these instructions.
2. Fill space between drain pipe and substrate with appropriate expansion joint materials (typically foam backer rod and sealant).
3. For drains with bolt-down collar and weep holes, loosen bolts and remove from flange. Abrade drain flange with sandpaper, and clean and dry thoroughly.
4. With paintbrush, apply a liberal coat over and around drain flange. Let dry to a dark green color.
5. Apply a second coat and let dry.

Pre-treat openings around pipes and other penetrations

1. Abrade ends of plumbing penetrations (PVC, copper, brass, stainless) with sandpaper.
2. Pack/fill the openings/spaces between drain pipe or penetrations and substrate with appropriate expansion joint materials (typically foam backer rod and sealant).

NA1740

IMPORTANT NOTICE

Before using, user shall determine the suitability of the product for its intended use and user alone assumes all risks and liability whatsoever in connection therewith. **ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN FIFTEEN (15) DAYS FROM DATE IT WAS, OR REASONABLY SHOULD HAVE BEEN, DISCOVERED.**

For the most current product data, visit www.na-adhesives.com.



North American
ADHESIVES®

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