



nora[®] banister trim

STAIR ACCESSORY

1 Product Name / Manufacturer

1.1 Product

nora[®] banister trim (A 5013), Article 744.

1.2 Manufacturer

nora systems, Inc.
9 Northeastern Blvd.
Salem, NH 03079
800-336-5096
603-894-1021
www.nora.com/us

1.3 Product Description

nora[®] rubber compound 959 with abundant natural fillers and environmentally compatible color pigments.

1.4 Physical Characteristics

Material Size: ~ 8.2' (2.5m) length

Thickness: Various as stated above.

ASTM Specification: ASTM F1861 Type TP - rubber, thermoplastic.

Composition: Homogeneous rubber compound.

Color: As selected from manufacturer's standard colors.

Surface: Smooth

2 Technical Data

2.1 Flammability

ASTM E648; NFPA 253; NBSIR 75 950, 1.0 achieved, ≥ 0.45 watts/sq. cm for Class 1 is required.

2.2 Smoke Density

ASTM E662; NFPA 258; NBS, 147 (flaming) and 249 (non-flaming) achieved, < 450 is required.

2.3 Bacteria Resistance

ASTM E2180 and ASTM G21, resistant to bacteria, fungi, and micro-organism activity.

3 Installation

3.1 Site Conditions

The flooring, adhesives, and accessories must be acclimated in the correct conditions for at least 48 hours prior to use. Areas of the flooring subjected to direct sunlight, for example through doors or windows, must be covered using blinds, curtains, cardboard or similar materials for 24 hours before, throughout and for a period of 72 hours after the installation to allow nora "wet" adhesives to cure.

The area to receive flooring must be fully enclosed, weather tight and climate controlled at the normal service ambient temperature and humidity (except walk-in freezers or similar). If this is not possible then the ambient temperature must remain steady ($\pm 10^{\circ}\text{F}$) and be between 59°F and 80°F for at least 48 hours prior, during and 72 hours after installation (do not use gas fueled blowers.) The ambient relative humidity is recommended to be $50\% \text{ RH} \pm 10\%$. However, dew point must be avoided, or stop the installation and remove any applied adhesive. The substrate surface must be at least 5°F above dew point.

3.2 Substrates

All on and below-grade concrete subfloors require a confirmed permanently effective vapor retarder with a low permeance (≤ 0.1) having a minimum thickness of 10 mils, or meets the current requirements of *ASTM E1745 — Standard Specification for Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs*. It must also be placed directly underneath the concrete, above the granular fill or use an effective moisture mitigation system that conforms to *ASTM F3010*.

Moisture Testing: Test the slab with a testing apparatus that conforms to and follows the exact protocol of *ASTM F2170 — Standard Test Method for Determining Relative Humidity in Concrete Slabs Using in situ Probes*. If for any reason you are unable to drill into the concrete, please contact the nora Technical Department.

Adhesive limits when tested at the correct service temperature and ambient humidity, the maximum allowable internal slab relative humidity levels (with effective vapor retarder as required) for nora[®] stepfix adhesive = 75% RH or a suitable contact adhesive following the adhesive manufacturer's SDS and written instructions. If the moisture test results exceed the maximum allowed then the installation must not proceed until either the moisture content drops to an acceptable level or an effective moisture mitigation system is used that conforms to *ASTM F3010 — Standard Practice for Two-Component Resin Based Membrane Forming Moisture Mitigation Systems for use Under Resilient Floor Coverings*, and installed following that manufacturer's written instructions.

All concrete subfloors must be absorptive (see water droplet test), permanently dry (see moisture testing), clean, smooth and structurally sound as per *ASTM F710*. In addition, concrete subfloors must be free of dust, solvents, paint, wax, varnish, oil, grease, asphalt, old adhesives and other extraneous materials that may interfere with the bond. Only mechanical means such as dustless diamond grinding with a Diamabrush[™] Concrete Prep Plus Tool, 25 or 100 grit (or similar) or shot blasting are acceptable to achieve this. Use a suitable vacuum cleaner or water-based sweeping compound as required. All local, state and federal regulations must be followed.

Water droplet test: When using the nora stepfix or a suitable contact adhesive it is mandatory that the substrate be absorptive as detailed within *ASTM F710*. To confirm this, the installer must perform a water droplet test in a sufficient number of places throughout the project. To perform the test, simply place a dime sized droplet of clean potable water using a clean straw or similar onto clean concrete (without any floor patching or leveling compounds). The water must absorb into the concrete within ten minutes to be considered absorptive, or the substrate is considered non-absorptive.

Fill all dry non-moving cracks and control joints greater than 1/32 inch with an appropriate patching compound or similar. Begin by mechanically removing all laitance, dirt, debris, and coatings from the fill area. Use a suitable dustless concrete saw with a diamond blade or similar to achieve this followed by vacuuming. Do not install over any moving cracks or joints. If the

concrete moisture level is too high, do not fill these with any patching compound. Use only those products and methods as directed by the moisture membrane manufacturer.

All expansion joints and moving joints must not be covered or overlaid with any nora product. Use a suitable industry standard expansion joint assembly system. For moving cracks please contact the nora technical department for recommendations.

All wooden subfloors must be a total minimum thickness of 1-1/4 inch and overlaid with overlapping joints using APA (American Plywood Association) underlayment grade plywood, installed as per *ASTM F1482 — Standard Practice for Installation and Preparation of Panel Type Underlayment's to Receive Resilient Flooring*.

Wooden substrates must not be in direct contact with concrete subfloors, even if built on sleepers. All suspended wood floors must have adequate under floor ventilation and a permanently effective vapor retarder or membrane placed directly on the ground beneath the air space.

The plywood must be clean and free of any bond breaking contaminants, this may be achieved by sanding if required or replacing the plywood with new APA plywood. Any gaps at the seams must be filled and smoothed with suitable and flexible joint filler. Any ridges must be sanded smooth.

Other subfloors/substrates: Please contact the nora Technical Department 1-800-332-NORA for any other type of subfloor or substrate inquiries and recommendations. Do not install over any oriented strand board (OSB), particleboard, Masonite, lauan or any similar unstable or contaminated substrates.

Mat Bond tests are recommended as they can help to determine the compatibility of the flooring system to a variety of substrates and may provide an indication of the presence of moisture. It is the responsibility of the installing party to determine the suitability of the subfloor being covered and how many Mat Bond tests need to be performed.

The areas and products to be tested must be properly conditioned for 48 hours before and during the testing period. There are several factors that can influence the outcome of a bond test, therefore it is important to follow this protocol. The

responsible party must ensure that the tests are conducted only at a time when subfloor and jobsite conditions comply with those requirements which are outlined in this installation guide and *ASTM F710*.

The correct adhesive selection will be determined based upon the usage and type of nora flooring along with the type of existing substrate conditions. If required, contact your nora representative for adhesive recommendations. Place tests randomly and at appropriate locations such as near walls or in light traffic areas.

Install the bond tests using the appropriate adhesive, trowel notch, open times, and rolling etc., Do not uplift to check for adhesive transfer after flooring placement. Use Duct tape or similar to seal the edges of the flooring test sample to the substrate on all sides. Protect the flooring from foot traffic for 12 hours and rolling traffic for the duration of the test which must be a minimum 3 days (72 hours).

Refer to the nora® Installation Guide for Mat Bond Test & evaluation of adhesives.

3.3 Adhesive

Use nora® stepfix tape adhesive or a suitable contact adhesive following the adhesive manufacturer's SDS and written instructions.

3.4 Heat Welding

Not applicable (Banister Trim)

3.5 Cold Welding

Not applicable (Banister Trim)

3.6 Flash Coving

Not applicable (Banister Trim)

3.7 Installation Guidelines

Refer to the nora® Installation Guide. For complete details go to www.nora.com/us.

4 Care and Cleaning

Refer to nora® Maintenance Guide - stairtreads. For complete details go to www.nora.com/us.

5 Warranty

See nora® Limited Warranty. For complete details go to www.nora.com/us.

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