

norament[®] grano

STAIRTREAD

1 Product Name / Manufacturer

1.1 Product

norament[®] grano stairtreads, Articles 479, 468 and 469 (visually impaired stripes available)

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[®] vulcanized rubber compound 926 with environmentally compatible color pigments that are free of toxic heavy metals like lead, cadmium or mercury.

1.4 Physical Characteristics

Material Size: Detailed in catalog

Stairtread Length: 479 ≥ 4 foot, 468 ≥ 5 foot and 469 ≥ 6 foot

Thickness: ASTM F386 ± 1/32" (± 0.8mm) is required - Meets requirements.

Depth: ± 1/8" (3.2mm) is required - ~1.77" (45mm)

Composition: Homogeneous

Color: 12 Standard colors

Surface: Hammered and smooth

2 Technical Data

2.1 Static Load Limit

ASTM F970, Residual compression of 0.005" with 800 lbs. achieved, ≤ 0.005" with 250 lbs. is required.

2.2 Rolling Load Limit

≤ 850 lbs. /sq. inch

2.3 Slip Resistance

ASTM D2047 Static coefficient of friction, Neolite dry 0.99, Neolite wet 0.95 achieved, ≥ 0.5 is required.

2.4 Flammability

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

2.5 Smoke Density

ASTM E662; NFPA 258; NBS, 334 (flaming) and 168 (non-flaming) achieved, < 450 is required.

2.6 Bacteria Resistance

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

2.7 VOC's

This flooring is GREENGUARD Gold Certified for Low VOC Emissions, Blue Angel Certified and CA 01350 Compliant.

2.8 Hardness

ASTM D2240, Shore type "A", 82 achieved, ≥ 70 is required.

3 Installation

3.1 Site Conditions

The stairtreads, adhesive, 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 and throughout installation and for a period of 72 hours after the installation to allow nora nose caulk to cure.

The area to receive stairtreads must be fully enclosed, weather tight and climate controlled at the normal service ambient temperature and humidity. If this is not possible then the ambient temperature must remain steady (± 10°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% 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

Perform testing and the proper preparation protocol (as described in the opening section of the nora installation guide), and follow the appropriate sections of this guide for installing flooring, substrate preparation and adhesive usage.

nora stairtreads are designed for straight stairs and cannot be used on winding steps. nora nosings and standard flooring may be used for those applications. Note: The vertical part of nosing on the stairtread or nosing is not designed to be adhered. Avoid bending or flexing nora stairtreads, especially if they have "VI" (visually impaired) strips. If they are creased during transportation, contact nora Technical Department before proceeding with the installation.

With steps that are wider than the stairtreads (approximately 6 feet) it will be necessary to join sections together. nora systems, Inc. recommends staggered fitting (ashlar) of the cuts from one step to the next. Note: When ordering the stairtreads for this purpose, ensure that they are all ordered from the same batch, and when possible use the factory edge for joining.

Concrete stairs:

All stairs must be permanently dry, clean, smooth and structurally sound, also prepared per *ASTM F 710*. The radius of the step nosing shall be no larger than the radius of the nora stairtread (½ inch radius). Most current commercial steel and pre-cast stair construction design falls within this spec. If the nosing is not within the required radius, a suitable repair method shall be used. The nora metal repair stair angle is a good choice for this application. Always follow the installation process detailed within the nora® Installation Guide. Suitable Epoxy fillers may also be used, following the manufacturer's written instructions. If any step is damaged, rounded, and uneven or out of level, then it must be properly repaired by an experienced underlayment contractor, following the directions of the manufacturer. The front

edge of the step must be straight and match the shape of the stairtread or nosing metal repair stair angle profile. Nora metal repair stair angles are available (if required) and must be mechanically fastened, using the fixings supplied. Then, using an appropriate patch or leveler, fully smooth the step to a suitable surface, including the nose. This area is subject to the most stress, once in service an unprepared step can compromise adhesion and result in damage to the stairtread.

Wooden stairs:

All stairs must be permanently dry, clean, smooth, level and structurally sound. Sanding is an option to make them smooth. All nails and screws must be countersunk and filled or removed. Loose boards must be screwed down or removed and replaced. All gaps and uneven or broken areas must be repaired or replaced. The front edge of the step must be straight and match the shape of the stairtread or nosing profile.

3.3 Adhesive

Use nora® stepfix adhesive for the installation of the nora stairtreads.

The nora stepfix is an easy and fast-to-use tape that is used to install norament® stairtreads. It is odorless and is produced without any formaldehyde, asbestos, lindane, chlorinated biphenyls, pentachlorophenol, solvents, plasticizers or other toxic substances. As well as being non-flammable and freeze-thaw stable, it will not dry out or become brittle. Roll size 9.45" x 164'

3.4 Heat Welding

Not applicable

3.5 Cold Welding

Optional or if required. Refer to the nora Installation Guide.

3.6 Flash Coving

Not applicable.

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

Limited 10-year warranty. See nora[®] Limited
Warranty. For complete details go to
www.nora.com/us.

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