

Technical Data/ Product Specifications

3M

Nomad™ Scraper Matting 8100

(Replaces 3M™ Nomad™ Heavy Traffic and Extra Duty Unbacked Matting)

- 1.0 Product Description** The product is an unbacked, non-woven, open and porous floor matting made from continuous vinyl filaments bonded together. The matting is motor oil resistant and suitable for heavy duty foot traffic in dry or wet areas. It also serves to scrape off and collect dirt which helps prevent dirt from being tracked into a building.
- 2.0 Intended Use** For use as an entryway mat outside or inside entrances to buildings, in recessed well mat areas, or other areas exposed to heavy foot traffic.
- 3.0 Standard Sizes**
- Sizes:
Small mats with nosing on width ends only:
3 feet x 5 feet or 4 feet x 6 feet
(0.9m x 1.5m or 1.2m x 1.8m): All colors
- Standard mats without nosing:
3 feet x 20 feet or 4 feet x 20 feet
(0.9m x 6.0m or 1.2m x 6.0m): Slate (gray) and Dove (brown) only
- Custom Lengths:
Widths: 3 feet or 4 feet (0.9m or 1.2m)
Lengths: 2 feet to 30 feet in 1-foot increments
(0.6m to 9.1m in 0.3m increments)
- Custom cuts:
Widths: 2 feet to 12 feet (0.6m to 3.6m)
Lengths: 2 feet to 60 feet (0.6m to 18.2m)
- 4.0 Colors** Ebony, Slate (gray), Concrete (light gray), Seagrey, Cabernet, Red, Dove (brown), Chestnut (dark brown), Blue, Silver, Forest
- 5.0 Requirements** The product shall be made of a motor oil resistant all-vinyl nonwoven continuous filament bonded together to form a durable and motor oil, water, weather and environmentally resistant mat suitable for heavy foot traffic.

Detailed Requirements:

<u>Property</u>	<u>Typical Values</u>
Thickness ASTM D418-68	Minimum: 0.68 inches (17.2 mm)[1]

5.0 Requirements
(continued)

Weight ASTM D-418-68	Minimum: 8.21 lb/yd ² (4.46 kg/m ²)
Microbiological Properties ASTM G-21-90	Inhibiting to fungal growth
Flammability DOC FF 1-70 (Pill Test) ASTM E-648, NFPA-253 & FTM Standard 372 Radiant Panel Test [2] Smoke Density ASTM-662-95	Passes >0.7 watts/ cm ² , NFPA Class 1 D _M =404
Electrical Properties Dielectric strength (ASTM D-149) Volume Resistivity (ASTM D-257) Electrostatic Propensity AATCC-134, Neolite soles	12.0 kilovolts 7.2 x 10 ¹¹ ohms-cm <u>Step</u> <u>Scuff</u> +1KV +2.13 KV Positive Positive
Extended Use Temperature	-10° to 120° F (-23° to 49°C)
Chemical Resistance: [3] Water 10% Salt Water Chlorinated Water Tri-Sodium Phosphate 5% Detergent Solution Peanut Oil Cooking Oil 24% Sulfuric Acid 10% Hydrochloric Acid Ethyl Alcohol Sodium Hydroxide Hexane Methylene Chloride (Paint Remover) Mineral Spirits Gasoline Motor Oil Diesel Fuel Transmission Fluid 25% Acetic-Acid Brake Fluid	Excellent [4] Excellent Excellent Excellent Excellent Good Good Excellent Excellent Good Excellent Good Good Poor Good Good Excellent Good Excellent Good Good

[1] Product may be compressed in package. Thickness is recovered loft.

[2] Recommended critical average radiant flux to be greater than 0.25 for residential and commercial use, greater than 0.5 for institutional applications.

[3] All tests 7 days @ 72° F, total product immersion.

[4] Excellent – No observed effect on product.

Good – Product slightly stiffens or discolors. 3M™ Nomad™ Scraper Matting 8100 is good for intermittent contact.

Poor – Product becomes unsuitable for use. 3M™ Nomad™ Scraper Matting 8100 should not be used Where it will regularly contact these chemicals.

6.0 Packaging and Marking

Packaging: Pre-Cut Mats – one per carton
Rolls – one per carton

Marking: Each carton shall be marked with product name, size, Color, and manufacturer's trade name.

7.0 Cleaning and Maintenance

Routine Maintenance

For dry areas:

1. Shake dirt from mat and remove mat from service area.
2. Sweep and remove dirt from service area.
3. If needed, flush both sides of mat with warm water to remove remaining dirt.
4. Allow mat to dry flat before placing it back into service.

For wet areas:

Hose both sides of mat daily with warm water.

Periodic Maintenance

Severely soiled matting can be restored to a high level of appearance with one of the following cleaning methods:

Scrub mat using a brush with a low foaming general purpose cleaner. (For heavy grease buildup, use a water-based degreaser.) Flush mat with hot water and allow to dry flat before placing it back into service.

OR

Clean mat using a high pressure washer with a low foaming general purpose cleaner. Flush mat with hot water and allow to dry flat before placing it back into service.

8.0 Installation, Seaming and Edging

Custom Cutting

3M™ Nomad™ Scraper Matting 8100 can be easily custom cut without edges fraying. Length and width dimensions may change during use. Wall-to-wall installations are not recommended.

Tools needed:

- Utility knife
 - Straight edge, 3-4 feet (1.1.3m) long
- If matting is to be cut to close specifications, be certain it is relaxed and not stretched. Unroll matting and allow to lie undisturbed for 24 hours at room temperature.
 - Use a utility knife and straight edge for cutting. Do not use scissors.
 - If it is necessary to move matting after cutting, roll it loosely to avoid stretching.

Recessed Well Installation:

1. Place mat into recessed well with edge of mat firmly against one end.
2. Unroll mat slowly until it covers the area with excess matting resting outside of well.

8.0 Installation, Seaming and Edging (continued)

3. Let mat relax undisturbed in place for a minimum of two hours (preferably overnight). **NOTE:** Mat temperature must be between 50°F(10°C) and 90°F(32°C) when installed.
4. If necessary, cut mat to width using a straight edge and utility knife (see Custom Cutting).
5. Cut mat length, adding ¼ inch for each foot recessed well length (2 cm added per meter). **EXAMPLE:** If recessed well is 6 feet (2 meters) long, mat should be 6 feet 1 ½ inches (2.04m) long.
6. Tuck oversized end of matting into recessed well and work material into place with hands or feet.

Seaming:

3M™ Nomad™ Scraper Matting 8100 can be seamed together to make mats wider or longer than standard sizes.

Materials needed:

- 3M™ Matting Seaming Tape (kit or roll)
 - 3M™ Matting Adhesive (one 3-ounce tube of adhesive will seam 15 linear feet [4.5 meters] of matting)
- Before seaming, be certain that matting is relaxed and not stretched. Unroll matting and allow to lie undisturbed for 24 hours at room temperature. Avoid stretching or pulling on mat when seaming.
 - Use pieces from the same roll to assure that color, shade and texture are the same.
 - Maximum recommended mat size is 80 sq. ft. (7.2 sq. meters).

You may want to use smaller mats for ease of handling and maintenance.

1. Place pieces of matting to be seamed side by side on a clean surface.
2. Unroll 3M™ Matting Seaming Tape between the two pieces of matting to be joined. Cut tape to length.
3. Position the pieces of matting on the seaming tape so that each piece's edge covers half the width of the tape. Be sure the pieces of matting touch at the tape center but do not overlap or buckle.
4. Fold back the edge of one piece of the matting along the full length of the seam.
5. When applying adhesive work rapidly. Adhesive may cause wrinkling of the seaming tape if the matting is not joined within 5 minutes of applying the adhesive. Apply adhesive in a continuous "zig-zag" pattern staying 1/4" (6 mm) from the outside edge of the exposed half of the seaming tape.
6. Return the folded edge of the matting to its original position and apply moderate pressure to bond the adhesive.
7. Fold back the second piece of matting along the full seam length.
8. Apply two additional beads of adhesive, the first along joint of seaming tape and the first piece of matting, and the second in a wavy pattern ¼ inch (6mm) from the outside edge of the exposed half of the seaming tape.
9. Return the folded back edge of the matting back to its original position and press firmly. At the same time, gently push both pieces of matting together to eliminate any gaps.
10. Place a weight, such as a board, along the full length of the seam to maintain pressure on the bond. Allow to dry undisturbed for at least eight hours before placing it into service.

8.0 Installation, Seaming and Edging (continued)

Applying Matting Edging:

Edging can be easily applied to 3M™ Nomad™ Scraper Matting 8100 to form a tapered edge.

Tools and Materials Needed:

- Utility knife
 - Straight edge, 3-4 feet long (1-1.3 meters)
 - 3M™ Matting Edging – Medium Profile
 - 3M™ Matting Adhesive (one 3-ounce tube of adhesive will apply approximately 15 linear feet of edging.)
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- Before applying edging ensure that matting and edging are relaxed and not stretched. Unroll matting and edging and allow to lie undisturbed for 24 hours at room temperature. Do not stretch or pull on matting when applying edging.
 - Apply edging to opposite side of matting where most people will walk. Recommended maximum edge length is 12 feet (4 meters).
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1. Arrange mat on floor so that sides to be edged are straight. Trim edges with a utility knife (not scissors) and a straight edge if necessary (see Custom Cutting).
 2. Cut a piece of edging the same length as the edge of mat.
 3. Place edging flat on the floor, grooved side up.
 4. Apply two beads of adhesive liberally to the top of edging.
 5. Place edge of mat on top of edging groove containing adhesive. Gently work mat snugly into the corner of edging groove to ensure a good fit.
 6. Place a weight, such as a board, along the full length of edging to maintain pressure on the bond. Allow to dry undisturbed for at least 8 hours before placing it into service.

9.0 Weight and Cube per Case

Size	Approximate Weight	Cube
3 ft. x 5 ft. (0.9m x 1.5m)	16 lb. (7kg)	1.297 cu. ft. (0.037m ³)
4 ft. x 6 ft. (1.2m x 1.8m)	23 lb. (10kg)	2.276 cu. ft. (0.064m ³)

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Important:

The information provided in this report is believed to be reliable; however, due to the wide variety of intervening factors, 3M does not warrant that the results will necessarily be obtained. All details concerning product specifications and terms of sale are available from 3M.

3M

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