

CORAL® GRIP HEAVY DUTY (HD) TECHNICAL DATA

1. PRODUCT NAME / MANUFACTURER

1.1 Product:

Coral® Grip Heavy Duty (HD) entrance flooring

1.2 Manufacturer:

Forbo Flooring Systems
 Humboldt Industrial Park
 Hazleton, PA 18202
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1.3 Product Description:

Construction: Coral® Grip HD entrance flooring is a versatile non-woven product with a patented embossed design suitable for both inside and outside entrances. Durable, pliable vinyl filaments provide a highly effective scraping action, with granulated PVC chips added to help create a non-slip surface. In standard form, Coral® Grip HD has an open, non-backed, pervious structure, but it can also be manufactured with an EVERFORT® vinyl backing. The innovative EVERFORT® vinyl backing is a solid vinyl which is flexible, strong, and heavy in weight. It lays flat, making installation easier. It is impervious to water, making it suitable for intensive wet cleaning.

1.4 Physical Characteristics: (dimensions are approximate)

Gauge-----	Backed: 0.67" (17 mm)
	Un-backed*: 0.66" (16.75 mm)
Backing -----	EVERFORT® vinyl back or un-backed
Width -----	Backed: 48" (1.27 meters) plus edging
	Un-backed: 48" (1.22 meters) no edging
Length	32.81' (10 meters)
Roll Size	14.58 yards ² (12 meters ²)

*As the construction of this product is un-backed, some variance of thickness may occur. The nominal thickness is 0.66" (16.75 mm).

For information on custom sized mats, contact the local Forbo Sales Representative.

2. PRODUCT PERFORMANCE AND TECHNICAL DATA

2.1 Application Areas:

Zone 1: Outside and Inside entrances to the building.

For additional information, refer to Forbo's Entrance Systems brochure.

2.2 Environmental:

Contributes to the following LEED® credits:

Indoor Environmental Quality

Credit 4.3: Low-Emitting Materials

Credit 4.1: Low-Emitting Materials (Adhesive complies with SCAQMD Rule #1168)

2.3 Durability:

Wear Classification of 33 when tested in accordance to EN 1307.

2.4 Fire Testing:

Class 1 when tested in accordance with ASTM E 648 / NFPA 253, Standard Test Method for Critical Radiant Flux.

Passes when tested in accordance to ASTM D 2859, Standard Test Method for Ignition Characteristics of Finished Textile Floor Covering Materials/Pill Test.

2.5 Color Fastness:

Rated 5.0 when tested in accordance to AATCC 129-01, Colorfastness to Ozone in Atmosphere Under High Humidity.

Rated 5.0 when tested in accordance to AATCC 164-01, Colorfastness to Oxides of Nitrogen in Atmosphere Under High Humidity.

3. INSTALLATION FOR BACKED CORAL® GRIP HD

3.1 Site Conditions:

The installation should not begin until the work of all other trades has been completed, especially overhead trades.

For interior applications, areas to receive flooring should be clean, fully enclosed and weathertight. The permanent HVAC must be fully operational, controlled and set at a minimum of 68° F (20° C) for a minimum of seven days prior to, during, and seven days after the installation.

For exterior applications, the installation should be done when weather conditions are comparable to a comfortable indoor environment and the temperature is a minimum of 68° F (20° C).

The flooring material (including any adhesive) should be conditioned in the same manner for a minimum of 48 hours prior to the installation. Areas to receive flooring shall be adequately lighted to allow for proper inspection of the substrate, installation and seaming of the flooring, and for final inspection.

3.2 Substrates:

Floors shall be sound, smooth, flat, permanently dry, clean, and free of all foreign material including, but not limited to, dust, paint, grease, oils, solvents, curing and hardening compounds, sealers, asphalt and old adhesive residue. Wood floors should be double construction with a minimum total thickness of 1 inch. Wood floors must be rigid, free from movement and have at least 18" of well-ventilated air space below. Forbo floor coverings should not be installed over wooden subfloors built on sleepers over on or below grade concrete floors without first making sure that adequate precautions have been taken to ensure the structural integrity of the system, and to prevent moisture migration from the concrete slab.

Concrete substrates should be prepared in accordance with the latest version of ASTM F 710, Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring. Concrete shall have a minimum compressive strength of 3,000 psi. Patch and repair minor cracks and other imperfections using only the highest quality patching and leveling compounds in strict accordance to the manufacturer's recommendations for their use and application. Floor covering should not be installed over expansion joints. Suitable expansion joint covers should be used. It is essential that moisture tests be conducted on all concrete floors regardless of the age or grade level. Conduct calcium chloride tests in accordance with the latest version of ASTM F 1869, Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride. Measure the internal relative humidity of the concrete slab in accordance with the latest version of ASTM F 2170, Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes. One test of each type should be conducted for every 1,000 square feet of flooring (minimum of 3). The tests should be conducted around the perimeter of the room, at columns, and anywhere moisture may be evident. Concrete moisture vapor emissions must not exceed 8.0 lbs. per 1,000 square feet in 24 hours when using Forbo Sustain 885m adhesive or 5.0 lbs. per 1,000 square feet in 24 hours when using Forbo 660 adhesive. Concrete internal relative humidity must not exceed 85% when using Forbo Sustain 885m adhesive or 75% when using Forbo 660 adhesive. A diagram of the area showing the location and results of each test should be submitted to the Architect, General Contractor or End User. If the test results exceed these limitations, the installation must not proceed until the problem has been corrected.

Note: Moisture tests indicate conditions at the time of the test only. The absence of an acceptable vapor retarder under the slab, changes in the environment, or other circumstances beyond Forbo's control, may lead to adverse changes in the moisture condition of the concrete. Forbo's warranty shall not be extended to cover damage or failures caused by moisture conditions in excess of specified limits that occur after the time of initial testing or installation.

3.3 Adhesive:

Use Forbo 660 adhesive.
Use a 1/16" x 1/16" x 1/16" square notch trowel.
Spread Rate: Approximately 110 – 120 square feet/gallon.

3.4 Installation Guidelines:

Refer to Forbo Flooring's Installation Guide for complete installation guidelines.

4. INSTALLATION FOR UN-BACKED CORAL® GRIP HD

4.1 Installation Guidelines:

Refer to Forbo Flooring's Installation Guide for complete installation guidelines. Coral Grip HD un-backed is generally placed into a recessed pan. The un-backed material cannot be adhered down to a subfloor. The purpose for being un-backed is to allow dirt to fall into the recessed pan, allowing the material to be removed and the pan cleaned out.

5. AVAILABILITY AND COST

Available through authorized Forbo Flooring suppliers throughout North America. Contact Forbo Flooring or an authorized supplier for cost information.

6. WARRANTY

Limited 5-year warranty. For complete details, contact Forbo Flooring.

7. CARE AND CLEANING

Once any permanent installations are completed, allow a minimum of 5 days for the adhesive to properly bond and cure before conducting wet cleaning procedures. For any un-backed materials installed into a recessed well, care can be conducted as needed. See Forbo Flooring's Floor Care Guide for additional information.

8. SUPPORT SERVICES

Submittal samples for verification and approval are available upon request from Forbo Flooring. Samples shall be submitted in compliance with the requirements of the Contract Documents. Please fax all sample requests to +570 450 0229 or visit our website at www.forboflooringna.com. Accepted and approved samples shall constitute the standard materials that represent materials installed in the project.

For current installation and floor care guidelines, guide specifications, and other technical information, visit our website at www.forboflooringna.com.