

### TECHNICAL DATA SHEET

#### DESCRIPTION

Emery Non-Slip is a very hard, non slip aggregate comprised of 100% pure emery. Emery is a natural occurring mined material that is extremely hard, tough and abrasion resistant. As a result, proper installation of Emery Non-Slip will impart long life and excellent slip resistance for concrete surfaces. Emery Non-Slip is completely non corrosive and rust free, for inside and outside use.

#### USE

Emery Non-Slip is applied to fresh concrete surfaces to provide a non slip surface. It is ideal for the floors of food processing plants, dairies, breweries, industrial buildings, warehouses, shopping centers or anywhere a non slip surface is required. It can be used for decks, stairways, ramps or anywhere surfaces are exposed to water.

#### FEATURES

- Dramatically increases the slip resistance of a concrete surface
- Emery is one of the hardest/most durable materials known to man
- Non rusting/can be used in a wet environment
- Easy to apply
- Becomes a permanent part of the concrete surface
- Not affected by chemical cleaners
- Interior/exterior applications

#### APPLICABLE STANDARDS

100% pure emery/corundum consisting of minimum of 58% aluminum oxide, a minimum of 24% iron oxide and no more than 4% silica.  
 Moh Hardness – 8 to 9 (Diamond is a 10)  
 Specific Gravity – 3.5  
 For heavy duty service for Class 5 and 6 industrial floor.

#### Estimating Guide

Light to Medium Duty Applications:

0.2-0.4 lbs/ft<sup>2</sup> (1.0–2.0 kg./m<sup>2</sup>)

Heavy Duty Applications:

First prepare a dry mix of 4 parts by weight of Emery Non-Slip and 1 part portland cement. 0.6 lb/ft<sup>2</sup> (3.0 kg./m<sup>2</sup>)

#### Packaging

PRODUCT CODE	PACKAGE	SIZE	
		Lb.	kg
67503	Bags	50	22.7

#### STORAGE

Store in a cool, dry area free from moisture. Shelf life is one year.

#### APPLICATION

It is recommended that a 10' x 10' (3.0m x 3.0m) test placement (mockup) is made using the same applicator, concrete mixture, finishing procedure and conditions as anticipated on the project. It is essential to learn about concrete mix design, anticipated set times, bleeding, and finishing times.

ACI 302 Guide to Concrete Floors and Slab Construction

ACI 305 Hot Weathering Concreting

ACI 306 Cold Weathering Concreting

ACI 308 Curing of Concrete

ACI 309 Consolidation of Concrete

#### Placement:

Placement of Base Concrete: Only place when ambient temperature is between 40°– 90°F (4°– 32°C). For conditions such as direct sun or high winds, contact Dayton Superior. Admixtures containing calcium chloride should not be used. Superplasticizers (high range water reducers) should be avoided, if possible.

#### Placement of Non-Slip Aggregate:

For heavy duty applications, first prepare a dry mix of 4 parts by weight of Emery Non-Slip and 1 part portland cement. For medium duty applications uniformly broadcast 2/3 of the Emery Non-Slip after the concrete has been screeded, straightened and bull floated prior to the appearance of bleed water on the surface. Do not broadcast Emery Non-Slip directly into bleed water. Be sure to apply Emery Non-Slip uniformly and avoid concentration or piling up of the emery. Broadcast by hand, or a Morrison Spreader. (A mechanical spreader will give the most uniform results and a Morrison Spreader or equal is recommended). If Emery Non-Slip is distributed by hand, avoid separation of fines and granular material. Avoid clumping material on the surface. Allow the Emery Non-Slip to remain unworked on the surface and allow it to wet out until it has darkened and is uniform in color; Emery Non-Slip will darken as it absorbs bleed water. Then float the surface by hand with wood floats to embed and integrate the Emery Non-Slip into the concrete surface as well as remove any surface irregularities. To prevent closing the slab too early, do not steel trowels. Leave part of the non-slip aggregate exposed for the non-slip surface profile. Early setting around the slab edges will occur and should be watched closely to properly time the floating operation.

**TECHNICAL DATA SHEET**

Immediately apply the remaining 1/3 amount of Emery Non-Slip uniformly at right angles to the first application. The second application does not have to be applied at right angles to the first application if a mechanical spreader is used. After the Emery Non-Slip has absorbed water and the concrete is firm, then trowel leaving part of the aggregate exposed to achieve the desired finish and texture. Do not rewet and do not overwork. During hot, dry, or windy conditions, use the AquaFilm Concentrate J74 or the AquaFilm J74RTU evaporation reducer, in accordance with the instructions in their current technical data sheet, to reduce moisture loss and extend concrete workability.

**CURING**

Immediately after final finishing, and after the surface water has disappeared, apply a Dayton Superior membrane forming compound or cure and seal. Wet curing methods compliant with ACI 308 may also be employed.

**WASTE DISPOSAL**

Dispose of waste material and empty packaging in accordance with all Federal, State and Local requirements. Refer to the product's SDS for further information.

**CLEAN UP**

Use clean water. Clean all tools and equipment before Emery Non-Slip has set.

**LIMITATIONS****FOR PROFESSIONAL USE ONLY**

Install only when the ambient temperature is between 40°– 90°F (4°– 32°C). Do not add other additives to Emery Non-Slip. Do not use calcium chloride based admixtures in the base concrete slab. Prepackaged material segregates while in the bag, thus when mixing less than a full bag it is recommended to first agitate the bag to assure it is blended prior to sampling.

**PRECAUTIONS****READ SDS PRIOR TO USING PRODUCT**

- Skin is sensitive to cement
- Wearing protective gloves and goggles is recommended
- Avoid contact with eyes
- Avoid prolonged contact with skin
- Contains portland cement

- Wash exposed skin promptly with water
- May cause skin irritation as well as cement burns
- In case of eye contact, flush eyes repeatedly with clean water and contact a physician
- Harmful if ingested

**MANUFACTURER**

Dayton Superior Corporation  
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Technical Services: 877-266-7732  
Website: [www.daytonsuperior.com](http://www.daytonsuperior.com)

**WARRANTY**

Dayton Superior Corporation ("Dayton") warrants for 12 months from the date of manufacture or for the duration of the published product shelf life, whichever is less, that at the time of shipment by Dayton, the product is free of manufacturing defects and conforms to Dayton's product properties in force on the date of acceptance by Dayton of the order. Dayton shall only be liable under this warranty if the product has been applied, used, and stored in accordance with Dayton's instructions, especially surface preparation and installation, in force on the date of acceptance by Dayton of the order. The purchaser must examine the product when received and promptly notify Dayton in writing of any non-conformity before the product is used and no later than 30 days after such non-conformity is first discovered. If Dayton, in its sole discretion, determines that the product breached the above warranty, it will, in its sole discretion, replace the non-conforming product, refund the purchase price or issue a credit in the amount of the purchase price. This is the sole and exclusive remedy for breach of this warranty. Only a Dayton officer is authorized to modify this warranty. The information in this data sheet supersedes all other sales information received by the customer during the sales process. THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND ALL OTHER WARRANTIES OTHERWISE ARISING BY OPERATION OF LAW, COURSE OF DEALING, CUSTOM, TRADE OR OTHERWISE.

**TECHNICAL DATA SHEET**

Dayton shall not be liable in contract or in tort (including, without limitation, negligence, strict liability or otherwise) for loss of sales, revenues or profits; cost of capital or funds; business interruption or cost of downtime, loss of use, damage to or loss of use of other property (real or personal); failure to realize expected savings; frustration of economic or business expectations; claims by third parties (other than for bodily injury), or economic losses of any kind; or for any special, incidental, indirect, consequential, punitive or exemplary damages arising in any way out of the performance of, or failure to perform, its obligations under any contract for sale of product, even if Dayton could foresee or has been advised of the possibility of such damages. The Parties expressly agree that these limitations on damages are allocations of risk constituting, in part, the consideration for this contract, and also that such limitations shall survive the determination of any court of competent jurisdiction that any remedy provided in these terms or available at law fails of its essential purpose.