

Technical Data

EMERY NON-SLIP™

Non-Slip Hard Aggregate for Concrete Floors and Pavements

PRODUCT 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 skid resistance for concrete surfaces.

Emery Non-Slip is completely non corrosive and rust free, for inside and outside use.

PURPOSE:

Emery Non-Slip is applied to fresh concrete surfaces to provide hard non skid surfaces. 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.

Emery Non-Slip can be used for heavy duty applications, including steel wheeled traffic.

ADVANTAGES:

- Dramatically increases the skid 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

SPECIFICATIONS:

- 100% pure emery/corundum consisting of minimum of 58% aluminum oxide, a minimum of 24% iron oxide and no more than 4% silica. (95% aluminum oxide is also available)
- Moh Hardness – 8 to 9 (Diamond is a 10)
- Specific Gravity – 3.5
- For heavy duty service for Class 5 and 6 industrial floors (*ACI Manual of Concrete Practices*)
- Mesh Size #14 to #36.

APPLICATION INSTRUCTIONS:

It is recommended that a 10' x 10' (3.0m x 3.0m) test placement (mockup) is made using the same concrete, 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.

The ACI Manuals of Concrete Practice are to be followed:

- 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 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. Base slab concrete shall be free of entrained (< 3%) or entrapped air when tested in accordance with ASTM C-173 or C-231. For interior concrete surfaces, use only non air entrained concrete.

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. Be sure to apply Emery Non-Slip uniformly and avoid concentration or piling up of the emery. Broadcast by hand, or a mechanical spreader. (A Morrison Spreader or Somero Spreader or equal is recommended.)

Do not broadcast Emery Non-Slip directly into bleed water.

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 soak up water until it has darkened and is uniform in color. Then float with weighted wood bull floats or highway edge to embed and integrate the Emery Non-Slip into the concrete surface as well as remove any surface irregularities. Wait until the concrete will support the weight of a power trowel using float shoes. (Combination blades should not be used). Early setting around the slab edges will occur and should be watched closely to properly time the floating operation. Break open the surface across the placement in the short direction. 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. **Prevent closing the slab too early as blistering or delamination may occur.** Do not use combination blades. During hot, dry or windy conditions, use Sure Film (J-74) Evaporation Reducer to reduce moisture loss and extend concrete workability. Use the J-74 in accordance with the product's written instructions.

Curing:

Apply one coat of Day-Chem Cure & Seal (J-18), (J-20) or (J-22) at a coverage rate not to exceed 300 ft² /gal. (7.4 m²/L). Wet burlap cure is allowed.

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APPROXIMATE COVERAGE:

Light to Medium Duty Applications: 0.2-0.4 lbs/ft² (1.0-2.0 kg./m²)

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/ft² (3.0 kg./m²)

PACKAGING:

55 lb. (25 kg.) multi-wall, plastic lined bags, 50 bags/pallet. Store in a cool, dry area free from moisture. Shelf life is one year.

CLEAN-UP:

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

LIMITATIONS:

Install only when the ambient temperature is between 40°– 90°F (4°– 32°C). Do not use air entrained concrete in excess of 3%. Do not add other additives to Emery Non-Slip. Do not use calcium chloride based admixtures in the base concrete slab.

WARNING:

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. Read MSDS before using product.

TECHNICAL SERVICES:

Contact the technical staff for assistance at:

1-866-329-8724 • 1-913-233-1750 • FAX: 1-913-279-4806
daytonsuperiorchemical.com

WARRANTY

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The purchaser must examine the product when received and promptly notify ("the Company") in writing of any non-conformity before the product is used, or no later than 30 days after such non-conformity is first discovered. If ("the Company"), 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 ("Company") officer is authorized to modify this warranty. The sales information on the ("the Company's") website and received by the customer during the sales process does not supersede this warranty and the specifications of the product in force on the date of sale. THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTY, 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.

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