

EURIPARE EMERY TOP

NON-METALLIC PREMIXED DRY SHAKE CEMENT BASED CONCRETE FLOOR HARDENER

DESCRIPTION

EURIPARE EMERY TOP is a cement-based, non-metallic floor hardener for concrete surfaces. It consists of a blend of cement, special aggregates, carefully selected additives, and graded aluminous oxide aggregate, which is exceptionally hard and ranks closely to the hardness of a diamond. This composition ensures optimal abrasion resistance and results in a slip-resistant finish.

USES

EURIPARE EMERY TOP is used for:

- Warehouses
- Factories
- Power stations
- Shipyards
- Military establishments
- Airports

ADVANTAGES

- High abrasion resistance
- High impact resistance
- Non-dusting surface
- High resistance to petroleum based products
- Stain resistance
- Easy to apply
- Non- Metallic floor hardener

APPLICATION

Application Procedure

- » The right time to spread the Hardener on concrete surface is when light foot traffic leaves an imprint of about 3 - 6 mm
- » Follow good concreting practices for laying the base slab, ensuring the use of clean aggregate and sufficient water for a workable mix. Vibrate the slab to ensure density.
Note: EURIPARE EMERY TOP should only be applied to Portland cement concrete, not mixes with rapid hardening cement.

| TYPICAL PROPERTIES | |
|----------------------------------------|------------------------------------------------------------------------------------------------|
| Appearance | Grey Powder |
| Abrasion resistance (ASTM C944) | Twice the wear resistance of control aggregate slab |
| Impact resistance | Resistant to an impact of 50 N/m without damage and 100 Nm with only slight indentation and no |
| Hardness | > 7 on Mohs Scale |
| Staining | Resistant to automotive oils, aviation oils, hydraulic brake fluid, kerosene, petrol |
| Compressive Strength (BS 6319, Part 2) | 3 days: 48 MPa 7 days: 50 MPa 28 days: 70 MPa |

Note: Compressive strength depends on water ratio and consistency

- » Smooth and compact the surface of the concrete with a wood float or power float to achieve an even and dense surface. Remove any free water or laitance using a soft broom or canvas belt.
- » Sprinkle the first application of EURIPARE EMERY TOP evenly at a rate of 2.5 kg per square meter over the concrete slab. Allow this application to sit for at least 5 minutes before proceeding to the next step.
- » Use a wood float, power float, or trowel to compact the layer of EURIPARE EMERY TOP.
- » Repeat the below Step with a second application of EURIPARE EMERY TOP.

- » Repeat the below and finally smooth the surface with a steel trowel or power trowel
- » Once firm, use a steel trowel (by hand or machine) to achieve a perfect finish. Protect and cure the entire slab for 7 days using a polythene sheet (refer to the curing section for details)
- » Immediately after removing the polythene sheet, sweep the floor to remove any dust or loose particles

Applying EURIPARE EMERY TOP on Screeds Bonded to Hardened Concrete

- » The fine concrete for screeds should have a minimum thickness of 40 mm and consist of 3 parts coarse aggregate graded 10 mm downwards, 1.5 parts clean sharp sand, and 1 part Portland cement. Mix the screed as stiff as possible to minimize shrinkage
- » Clean and soak the concrete base to ensure a good bond. Brush cement grout into the concrete while it is still wet. Place the screed, level it off, and float with a wood float until the surface is true and dense
- » Apply EURIPARE EMERY TOP following the above steps
- » For a non-slip finish, give the surface a flat steel troweled finish in a sweeping circular motion to create slight ridges

DOSAGE

2.5 kg/m² per each application.

Note: EURIPARE EMERY TOP industrial flooring should be applied to the newly placed concrete (or screed) at the rate of 5 kg/m².

CURING

Proper curing is crucial for achieving high-quality floors. Once the final troweling is complete and the surface has hardened enough to prevent damage, it should be covered with a plastic sheet, wet burlap, or any other standard curing method. It is recommended to maintain this curing cover for a minimum of 7 days. Adequate curing helps in promoting proper hydration and strength development in the flooring material.

Note: For situations where enhanced chemical resistance is needed, it is recommended to use penetrative sealers. These sealers are particularly beneficial in areas where there is a high likelihood of encountering excessive oil spillages or highly penetrative light oils. It's important to note that if a liquid curing membrane has been applied for curing purposes, it must be removed prior to applying penetrative sealers.

PACKAGING

EURIPARE EMERY TOP is supplied in 25 kg bags.

STORAGE

EURIPARE EMERY TOP should be stored and maintained under dry conditions away from extreme temperatures, similar to those for cement.

The shelf life of EURIPARE EMERY TOP is 6 months from the date of production.

HEALTH AND SAFETY

For more information, please check the Material Safety Data Sheet.

CONTACT

Al-Faiha for Engineering Products is the exclusive licensee manufacturer for ECA.

For more information, please contact us at techsupport@alfaihaengineering.com.

DISCLAIMER

ECA aims to ensure the accuracy of information and recommendations in the product literature. However, due to variations in materials, substrates, and site conditions, and without control over product application, storage, weather, and usage conditions, ECA cannot be held liable for any resulting issues.