



EUCO FLAT-PLATE

HEAVY DUTY, METALLIC FLOOR HARDENER FOR FLAT FLOORS F_F 40 AND GREATER

DESCRIPTION

EUCO FLAT-PLATE is a specially formulated metallic floor hardener composed of a specially processed and graded iron aggregate, selected portland cement and plasticizing agents. This hardener is specifically designed to achieve high flatness numbers, FF 40 and greater. EUCO FLAT-PLATE has been formulated to be applied at heavy application rates, up to 12 kg/m² using standard procedures, while maintaining a “window of finishability” long enough for the contractor to perform the restraightening and finishing operations necessary for high flatness floors.

PRIMARY APPLICATIONS

- F_F 40 and greater floors with high traffic patterns
- Narrow aisles in high bay facilities
- AGV areas
- Warehouses
- Industrial floors
- Distribution centers

FEATURES / BENEFITS

- Designed to be used on ACI 302 Class 6 or greater floors requiring surface toughness with a flatness rating of F_F40 or greater
- Optimum consistency and gradation
- Results in a surface up to 8 times as abrasion resistant as plain, cured concrete
- Flatness friendly for use by qualified finishers
- Dense surface resists penetration of oil, grease, and many other liquids
- Virtually non-dusting surface

TECHNICAL INFORMATION

Typical Engineering Data

Compressive Strength ASTM C 109

50 mm cubes

AGE	STRENGTH MPa
1 day.....	27.6
3 days.....	34.5
7 days.....	48.3
14 days.....	62.1
28 days.....	69.0

Appearance

EUCO FLAT-PLATE is packaged as a free flowing powder. The final finish can be any texture normally achievable with concrete and should be specified by the owner.

PACKAGING

EUCO FLAT-PLATE is packaged in 22.7kg bags.

SHELF LIFE

2 years in original, unopened package

COVERAGE

EUCO FLAT-PLATE may be applied at rates from 4.9 to 12.2 kg/m². Greater application rates yield better total abrasion resistance and may be used with special considerations. Contact your Euclid Chemical Company representative for recommended procedures.

DIRECTIONS FOR USE

The contractor and engineer are encouraged to consult and review the Euclid Chemical bulletin “**Dry Shake Floor Hardeners - Application Instructions**”. The document offers instructions detailing the general installation of Euclid Chemical manufactured dry shake floor hardeners. **Note:** If the contractor is not familiar with the standard application techniques of a dry shake floor hardener, a pre-job meeting is suggested to review the project concrete mix design as well as placement and curing details unique to the particular job. Contact your local Euclid Chemical Company representative for additional information.

Armored Joints: EUCO FLAT-PLATE may also be used as a mortar to construct armored floor joints.

Application Tips: Screeding and straightening the slab before application of EUCO FLAT-PLATE may require the use of a highway straight-edge and/or use of a laser screed to meet the proper floor tolerances. Use of a highway straight-edge may be required after each application of EUCO FLAT-PLATE to ensure proper tolerances. A sample slab is recommended to demonstrate proper techniques for the particular mix design.

Curing and Sealing: After finishing operations are complete and the surface will not be marred by foot traffic, apply a Euclid Chemical curing compound or cure and seal according to product instructions. To produce an exceptionally durable and dustproof surface, cure with a dissipating or removable curing compound such as KUREZ DR VOX or KUREZ RC, then seal with EUCO DIAMOND HARD or ULTRASIL Li+.

CLEAN UP

Clean tools and equipment with water before the material hardens.

PRECAUTIONS / LIMITATIONS

- The use of supplementary cementitious materials are not recommended for use with a dry shake hardener
- Sufficient labor is required to produce consistent results on large placements.
- Important: Air-entraining admixtures may complicate finishing operations and cause blistering. Contact The Euclid Chemical Company if this product will be applied over air entrained concrete with more than 3% total air content.
- Not recommended for floors subjected to deicing salts, continuously wet or acidic/corrosive environments where chemicals may attack a cement-based material.
- Store product in a dry place.
- In all cases, consult the Safety Data Sheet before use.

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