

EUCO FLAT-PLATE®

HEAVY DUTY METALLIC FLOOR HARDENER FOR F_F 40 AND HIGHER FLATNESS FLOORS

DESCRIPTION

EUCO FLAT-PLATE® is a specially formulated metallic floor hardener composed of a specially processed and graded iron aggregate, selected portland cement and necessary plasticizing agents. This hardener is specifically designed to be used by competent contractors on floors required to achieve high flatness numbers, F_F 40 and higher. EUCO FLAT-PLATE, when properly applied, restraightened and finished, assists the contractor in obtaining a dense toughened flat floor capable of withstanding abrasion and impact conditions present in many industrial and manufacturing facilities. EUCO FLAT-PLATE has been especially formulated to be applied at heavy application rates, up to 2 .5 lb/ft² (12 kg/m²) using normal procedures, while maintaining a “window of finishability” wide enough for the contractor to perform the restraightening and finishing operations necessary for high flatness floors.

PRIMARY APPLICATIONS

- F_F 40 and higher 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 higher floors required to be surface toughened with a flatness rating of F_F40 or higher.
- Optimum consistency and gradation for restraightening.
- Results in a surface 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, 2” (50 mm) Cubes

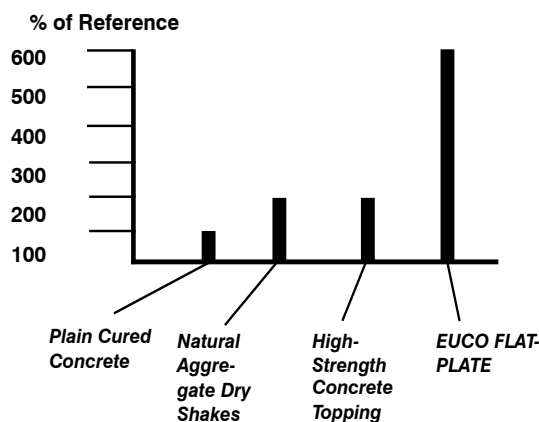
AGE	STRENGTH
1 day	4,000 psi (27.6 MPa)
3 days	5,000 psi (34.5 MPa)
7 days	7,000 psi (48.3 MPa)
14 days	9,000 psi (62.1 MPa)
28 days	10,000 psi (69.0 MPa)

Appearance

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

Relative Abrasion Resistance

ASTM C 779 Maximum Ranges



PACKAGING

EUCO FLAT-PLATE is packaged in 50 lb (22.7 kg) bags with polyethylene liners for moisture protection. Material is shipped 64 bags per pallet.

SHELF LIFE

1 year in original, unopened package.



The Euclid Chemical Company

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An **RPM** Company



COVERAGE

EUCO FLAT-PLATE may be applied at rates from 1.0 to 2.5 lb/ft² (4.9 to 12.2 kg/m²). Higher application rates yield better total abrasion resistance. Greater application rates 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 “**Application Instructions- Dry Shake Floor Hardeners**”. 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 in constructing armored floor joints. Consult The Euclid Chemical Company for recommended procedures and ratio of usage.

Application Tips: Striking 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: Curing and sealing EUCO FLAT-PLATE may be done with either a EUCLID CHEMICAL water based or solvent based cure, or cure and seal. Each has its own advantages and unique properties. Consult the individual technical data sheet for each curing and sealing product or contact your Euclid Chemical Company representative for a recommendation regarding your specific project.

Note: If the floor surface will later be frequently exposed to solvents, hydraulic fluid etc. cure the floor with either polyethylene sheeting or with KUREZ DR VOX applied at 400 to 500 ft²/gal (9.8 to 12.3 m²/L). After 6 to 8 weeks exposure to traffic and sunlight, the KUREZ DR VOX may be removed with mechanical scrubbers. After curing, a toughened EUCO FLAT-PLATE surface does not normally require a subsequent sealer unless a glossy surface or greater resistance to penetration from liquids is desired. If sealing is desired, seal the floor with EUCO DIAMOND HARD penetrating sealer. Consult individual product data sheets for suitability and application information.

CLEAN-UP

Clean tools and equipment with soap and water before material hardens.

PRECAUTIONS/LIMITATIONS

- Sufficient manpower 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 application of this product will be over air entrained concrete with more than 3% total air content.
- Not recommended for floors subjected to deicing salts, continuously wet environments or acids or other corrosive chemicals that may attack a cement based material.
- Store product in a dry place.
- In all cases, consult the Material Safety Data Sheet before use.

WARRANTY: The Euclid Chemical Company (“Euclid”) solely and expressly warrants that its products shall be free from defects in materials and workmanship for one (1) year from the date of purchase. Unless authorized in writing by an officer of Euclid, no other representations or statements made by Euclid or its representatives, in writing or orally, shall alter this warranty. EUCLID MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME. If any Euclid product fails to conform with this warranty, Euclid will replace the product at no cost to Buyer. Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages. Any warranty claim must be made within one (1) year from the date of the claimed breach. Euclid does not authorize anyone on its behalf to make any written or oral statements which in any way alter Euclid’s installation information or instructions in its product literature or on its packaging labels. Any installation of Euclid products which fails to conform with such installation information or instructions shall void this warranty. Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. Buyer shall be solely responsible for determining the suitability of Euclid’s products for the Buyer’s intended purposes.