



THE EUCLID CHEMICAL COMPANY

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EUCO FLAT-PLATE®

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

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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
- Warehouses
- Industrial floors
- Distribution centers
- AGV areas

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.
- Can be applied at coverage rates up to 2.5 lb/ft² (12kg/m²) using normal procedures.

† EUCO FLAT-PLATE is a registered trademark no. 1,853,972

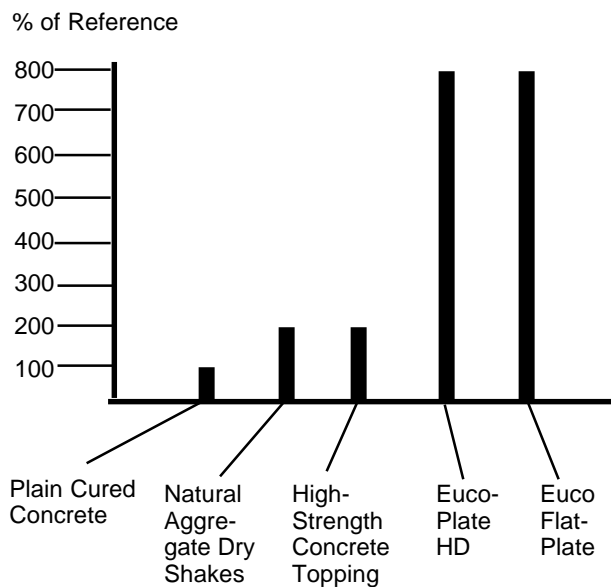
TECHNICAL INFORMATION

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)

RELATIVE ABRASION RESISTANCE ASTM C 779 MAXIMUM RANGES



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.

COVERAGE

EUCO FLAT-PLATE may be applied at rates from 1.0 - 2.5 lb/ft² (4.9 - 12.2 kg/m²). The higher the application rate, the better the abrasion resistance. Greater application rates may be used with special considerations. Contact your Euclid Chemical Company representative for recommended procedures.

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.

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.

Iron Armored Joints-EUCO FLAT-PLATE may also be used as a mortar in constructing iron armored floor joints. These joints provide added wear resistance at joint edges increasing the serviceable life of the floor. Consult The Euclid Chemical Company for recommended procedures and rate of usage.

In addition to the information in "Application Instructions - Dry Shake Floor Hardeners", the contractor should consider the following when installing EUCO FLAT-PLATE:

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-The following products are recommended for curing and sealing EUCO FLAT-PLATE. 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 representative for a recommendation regarding your specific project.

CURING

Solvent Based

SUPER FLOOR COAT
SUPER DIAMOND CLEAR

V.O.C. Compliant

KUREZ DR VOX¹
SUPER DIAMOND CLEAR VOX
SUPER AQUA-CURE VOX

SEALING²

Solvent Based

SUPER FLOOR COAT

V.O.C. Compliant

EUCO DIAMOND HARD¹
FLOOR SEAL VOX

¹If 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 400-500 ft²/gal (9.8-12.2 m²/liter). After 6-8 weeks exposure to traffic and sunlight, the KUREZ DR VOX may be removed with mechanical scrubbers. Seal the floor with EUCO DIAMOND HARD penetrating sealer. Fast track projects may be cured and sealed with EUCO DIAMOND HARD. Consult individual product data sheets for suitability and application information.

²After 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.

CLEAN-UP

Clean tools and equipment with water before the material hardens.

Shelf life is 1 year in original, unopened package.

PRECAUTIONS / LIMITATIONS

- Not recommended for floors subjected to acids or other corrosive chemicals.
- Not recommended for slabs subjected to de-icing salts.
- Not recommended for floors or slabs subjected to continuously wet environments.
- Sufficient manpower is required to produce consistent results on large placements.
- 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.
- Store product in a dry place.

Form Euco Flat-Plate-9.99

WARRANTY: The Euclid Chemical Company ("Euclid") solely and expressly warrants that its products shall be free from defects in materials and workmanship for six (6) months 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.