

# EUCO-PLATE HD

## HEAVY DUTY METALLIC FLOOR HARDENER

### DESCRIPTION

**EUCO-PLATE HD** is a dry shake, metallic floor hardener with graded iron aggregate in a high strength cementitious binder. Designed to be incorporated into fresh concrete slabs, EUCO-PLATE HD provides a dense, tough surface capable of withstanding the abrasion and impact loading seen by floor slabs of numerous industrial and manufacturing facilities. EUCO-PLATE HD has been specially formulated to be applied at heavy application rates which exceed those of standard EUCO-PLATE or other first generation metallic hardeners. EUCO-PLATE HD is also used to construct iron armored joints to protect and reinforce joint shoulders in heavy traffic areas.

### PRIMARY APPLICATIONS

- Industrial floors
- Loading docks
- Warehouses
- Main, high traffic aisleways
- Processing plants
- Passenger and freight terminals
- Towveyors
- Distribution centers
- Iron armored joints

### FEATURES/BENEFITS

- Provides a high strength wearing surface in areas subject to constant or frequently wet conditions without oxidizing.
- Gives up to 8 times the abrasion resistance of plain, cured concrete.
- Iron aggregate is free of rust, oil, or other contaminants.
- Dense surface resists penetration of oil, grease, and many other liquids.
- Virtually non-dusting in service.
- Easy to clean and maintain
- Economical to own over the life of the floor.
- Can be applied at coverage rates up to 3.0 lb/ft<sup>2</sup> (14.6 kg/m<sup>2</sup>).
- Available in 8 standard colors.

### 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-PLATE HD is a free flowing powder as packaged. Pigmented formulations will appear darker after placement. Standard colors: French Gray, Battleship Gray, Black, Brown, Tile Red, Tera Cotta, Green and Tan. The final finish can be any texture normally achievable with concrete and should be specified by the owner.

### PACKAGING

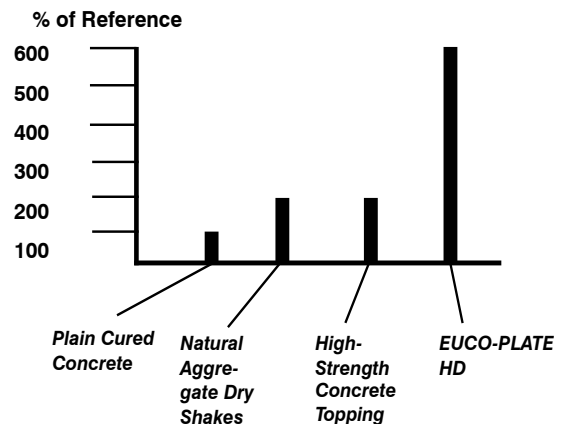
EUCO-PLATE HD is packaged in 50 lb (22.7 kg) bags with polyethylene liners for moisture protection. Material is shipped 64 bags per pallet.

### SHELF LIFE

1 year in original, unopened package.

#### Relative Abrasion Resistance

ASTM C 779 Maximum Ranges



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## COVERAGE

EUCO-PLATE HD may be applied at rates from 1.5 to 3.0 lb/ft<sup>2</sup> (7.3 to 14.6 kg/m<sup>2</sup>). 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-PLATE HD 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: Colored (pigmented) dry shakes** require special attention for a uniform color. Care should be taken with regard to the following; delay application of the shake as long as possible to get the maximum color saturation at the surface of the slab, apply the shake as evenly as possible and in two applications for maximum uniformity, do not burnish trowel the floor. Best appearance is achieved by hand trowelling the final finish.

**Curing and Sealing:** Curing and sealing EUCO-PLATE HD 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. If wet curing is the only option, the use of DIAMOND-PLATE is recommended.

**Note:** If the floor surface will later be frequently exposed to solvents, hydraulic fluid etc. cure the floor with KUREZ DR VOX applied at 400 to 500 ft<sup>2</sup>/gal (9.8 to 12.3 m<sup>2</sup>/L). After 6 to 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. 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

- Proper curing and sealing is required.
- Curing with a sheet membrane (poly or burlene) is acceptable, however potential mottling problems may occur.
- 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. Use DIAMOND-PLATE for these applications.
- 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.