



# 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 of 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

- Achieves 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 14.6 kg/m<sup>2</sup>
- Available in 8 standard colors

### TECHNICAL INFORMATION

#### Typical Engineering Data

**Compressive Strength** ASTM C 109, 50 mm cubes mixed at 2.16 kg of water per 22.7 kg bag

AGE	STRENGTH MPa
7 days.....	69.0
28 days.....	82.8

#### Relative Abrasion Resistance

AGE	Abrasion @ 30 min.	Abrasion @ 60 min.
7 days	0.33 mm	1.02 mm
28 days	0.23 mm	0.64 mm

**Appearance:** EUCO-PLATE HD is a free flowing powder as packaged. Pigmented formulations will appear darker after placement. Colors available: Natural Concrete Gray (standard), French Gray, Battleship Gray, Black, Brown, Tile Red, Terra Cotta, Green and Tan. The final finish can be any texture normally achieved with concrete and should be specified by the owner. In addition, the joints of the newly installed EUCO-PLATE HD floor can be filled with a matching color available in the EUCO QWIKJOINT UVR polyurea joint filler product.

### PACKAGING

EUCO-PLATE HD is packaged in 22.7 kg bags with polyethylene liners for moisture protection.

### SHELF LIFE

2 years in original, unopened package

## COVERAGE

EUCO-PLATE HD may be applied at rates from 7.3 to 14.6 kg/m<sup>2</sup>. 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-PLATE HD may also be used as a mortar to construct armored floor joints.

**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:** 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
- 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 Safety Data Sheet before use

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