



EUCO-PLATE HD

HEAVY DUTY METALLIC FLOOR HARDENER

EUCLID CHEMICAL

PACKAGING

50 lb (22.7 kg) bag
Code: 063C 50

APPROXIMATE COVERAGE

EUCO-PLATE HD may be applied at rates from 1.5 to 3.0 lb/ft² (7.3 to 14.6 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.

CLEAN UP

Clean tools and equipment with water before the material hardens.

SHELF LIFE

2 years in original, unopened package

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 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.

PRODUCT CHARACTERISTICS

FEATURES/BENEFITS

- Iron aggregate is free of rust, oil, or other contaminants
- 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/ft² (14.6 kg/m²)
- Available in colors

PRIMARY APPLICATIONS

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

APPEARANCE

EUCO-PLATE HD is a free flowing powder as packaged. Pigmented formulations will appear darker after placement. Standard colors are Natural (cement-colored), Light Gray, and Light Reflective. EUCO-PLATE HD is also available made-to-order in Battleship Gray, Brown, Diamond Green, French Gray, Tan, Terra Cotta, and Tile Red. The final finish can be any 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 EUCO QWIKJOINT UVR polyurea joint filler.

TECHNICAL INFORMATION

The following are typical values obtained under laboratory conditions. Expect reasonable variation under field conditions.

Test Method	Test Property	Values
ASTM C109	Compressive Strength	2 in. (50 mm) cubes, mixed at 4.75 lb (2.16 kg) of water per 50 lb (22.7 kg) bag 7 days 10,000 psi (69.0 MPa) 28 days 12,000 psi (82.8 MPa)
ASTM C779	Relative Abrasion Resistance	Abrasion @ 30 min. Abrasion @ 60 min 7 days 0.013" (0.33 mm). 0.040" (1.02 mm) 28 days. 0.009" (0.23 mm). 0.025" (0.64 mm)

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.*

Concrete Mix Design Note: Concrete containing calcium chloride or admixtures with > 0.05% chloride ions should not be treated with metallic dry shakes. Air content must be below 3% for all dry shakes. Cement should be the only cementitious material present in the mix. The use of supplementary cementitious materials, such as fly ash, slag, and microsilica can cause delayed bleeding and are not recommended for use with a dry shake hardener.

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. For color consistency, do not over trowel the floor.

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 curing compound such as KUREZ DR VOX, then densify with EUCO DIAMOND HARD.

PRECAUTIONS/LIMITATIONS

- The use of supplementary cementitious materials are not recommended for use with a dry shake hardener
- Proper curing and sealing is required.
- Do not cure this product with UltraSil 7 or UltraSil DC9
- 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 other corrosive chemicals that can result in oxidation of iron. EUCO DIAMOND-PLATE may be a better choice for these applications.
- Store product in a dry place.
- When necessary, follow the recommendations in ACI 305R “Guide to Hot Weather Concreting” or ACI 306R “Guide to Cold Weather Concreting”.
- In all cases, consult the Safety Data Sheet before use.

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