



# THE EUCLID CHEMICAL COMPANY

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## DIAMOND-PLATE LIGHT REFLECTIVE

### NON-OXIDIZING, METALLIC FLOOR HARDENER

- XENG.SPECS    ◆ CATALOG INDEX
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**DIAMOND-PLATE LIGHT REFLECTIVE** is a dry shake, metallic floor hardener with graded, non oxidizing metallic aggregate in a high strength cementitious binder. Designed to be incorporated into fresh concrete slabs, **DIAMOND-PLATE LIGHT REFLECTIVE** provides a dense, tough surface capable of withstanding the abrasion and impact loading seen by floor slabs of numerous industrial and manufacturing facilities. **DIAMOND-PLATE LIGHT REFLECTIVE** has been specially formulated to give increased reflectivity to improve lighting levels in combination with a non rusting aggregate for increased abrasion resistance. **DIAMOND-PLATE LIGHT REFLECTIVE** can also be mixed in a mortar consistency and placed along joints to provide edge reinforcement.

#### PRIMARY APPLICATIONS

- Industrial floors
- Warehouses
- Processing plants
- Passenger and freight terminals
- Vehicle maintenance shops reinforcement
- Loading docks
- Main, high traffic aisleways
- Towveyors
- Distribution centers
- Joint edge reinforcement

#### FEATURES/BENEFITS

- Provides a high strength wearing surface in areas subject to constant or frequently wet conditions without oxidizing.
- Gives up to 6 times the abrasion resistance of plain, cured concrete.
- Metallic aggregate is free of rust, oil, and other deleterious materials.
- Dense surface resists penetration of oil, grease, and many other liquids.
- Virtually non-dusting in service, easy to clean and maintain.
- Capable of reducing annual energy costs with lowering of electrical requirements due to improved lighting.
- 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>).
- Provides reflectivity levels in excess of 60%.

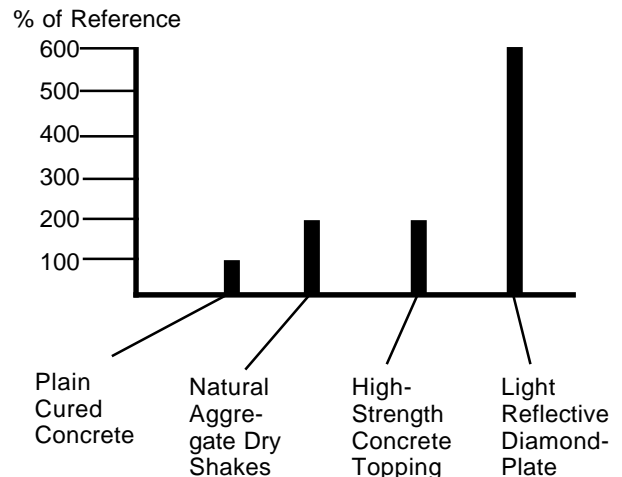
#### TECHNICAL INFORMATION

##### 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)

##### RELATIVE ABRASION RESISTANCE ASTM C 779 Maximum Ranges



**Appearance**-**DIAMOND-PLATE LIGHT REFLECTIVE** 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 Rates**-**DIAMOND-PLATE LIGHT REFLECTIVE** may be applied at rates from 1.0 - 2.5 lb/ft<sup>2</sup> (4.9 - 12.2 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.

## **PACKAGING**

DIAMOND-PLATE LIGHT REFLECTIVE 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.

**Armored Joints**-DIAMOND-PLATE LIGHT REFLECTIVE may also be used as a mortar in constructing 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 DIAMOND-PLATE LIGHT REFLECTIVE:

**Colored (pigmented) dry shakes** require special attention for a uniform color. Care should be taken with regards to the following:

- a. Delay application of the shake as long as possible to get the maximum color saturation at the surface of the slab.
- b. Apply the shake as evenly as possible and in two applications for maximum uniformity.
- c. Do not burnish trowel the floor. Best appearance is achieved by hand troweling the final finish.

**Curing and Sealing**-The following products are recommended for curing and sealing DIAMOND-PLATE LIGHT REFLECTIVE. 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 DIAMOND CLEAR  
SUPER FLOOR COAT COLORED  
KUREZDR VOX<sup>1</sup>

### **V.O.C. Compliant**

SUPER DIAMOND CLEAR VOX  
SUPER AQUA-CURE VOX  
KUREZDR VOX<sup>1</sup>

## **SEALING**

### **Solvent Based**

SUPER FLOOR COAT COLORED

### **V.O.C. Compliant**

FLOOR SEAL VOX  
EUCO DIAMOND HARD<sup>1</sup>

<sup>1</sup> If the floor surface will later be frequently exposed to solvents, hydraulic fluid, etc., cure the floor with EUCO-SIL and polyethylene sheeting. EUCOSIL is applied at 400-500 ft<sup>2</sup>/gal (9.8-12.3 m<sup>2</sup>/liter). Seal the floor with either 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.

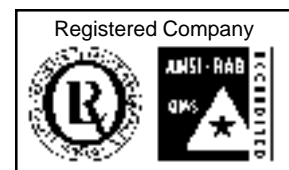
## **CLEAN-UP**

Clean tools and equipment with water before the material hardens.

Shelf life is 2 years in original, unopened package.

## **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.
- 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.
- Do not burnish trowel light reflective surface hardeners.
- Not recommended for floors subjected to acids or other corrosive chemicals that may attack a cement based material.
- Store product in a dry place.



Form Diamond-Plate LR-1.01

**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.