



# SURFLEX LIGHT REFLECTIVE

NON-METALLIC, LIGHT REFLECTIVE FLOOR HARDENER

EUCLID CHEMICAL

## PACKAGING

50 lb (22.7 kg) bag  
Code: 166B 50

## APPROXIMATE COVERAGE

SURFLEX LIGHT REFLECTIVE may be applied at rates from 1.0 to 2.5 lb/ft<sup>2</sup> (4.9 to 12.2 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.

## CLEAN UP

Clean tools and equipment with water before the material hardens.

## SHELF LIFE

2 years in original, unopened package

## SPECIFICATIONS AND COMPLIANCES

- Canadian Food Inspection Agency compliant

## DESCRIPTION

SURFLEX LIGHT REFLECTIVE is a special formulation of finely graded silica aggregates, pigments, plasticizers and a cement binder. It is an economical concrete floor hardener recommended for both interior and exterior use. SURFLEX LIGHT REFLECTIVE has been designed to give increased reflectivity to improve lighting levels in combination with increased abrasion resistance.

## PRODUCT CHARACTERISTICS

### FEATURES/BENEFITS

- Provides reflectivity levels in excess of 60%
- Saves on initial facility investments possibly eliminating some light fixtures
- Capable of reducing annual energy costs by lowering electrical requirements due to improved lighting
- Excellent for both indoor and outdoor use
- Provides a dense, high-strength surface for easy maintenance

### PRIMARY APPLICATIONS

- Where floor surfaces will be subjected to a range of duty service
- Where light-reflective, non-metallic floors are specified
- Airline hangars
- Warehouses
- Factory floors
- Parking garages
- Auto service centers
- Commercial and industrial facilities

### APPEARANCE

SURFLEX LIGHT REFLECTIVE is a free flowing powder as packaged. The color will appear darker after placement on the concrete surface, but will lighten substantially after curing and drying. The final finish can be any texture normally achieved with concrete and should be specified by the owner.

## 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 5.13 lb (2.32 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 . . . . . 0.019" (0.48 mm). . . . . 0.042" (1.07 mm) 28 days. . . . . 0.013" (0.33 mm). . . . . 0.036" (0.91 mm)

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## 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:** 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.

**Application Tips:** Colored (pigmented) dry shakes require special attention for a uniform color. If the job involves placement of SURFLEX LIGHT REFLECTIVE, care should be taken with regards 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, cure and seal, or water cure 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 EUCCO DIAMOND HARD.

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## 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
- 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 applied over air entrained concrete with more than 3% total air content.
- Do not burnish trowel light reflective surface hardeners.
- 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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