



# SURFLEX

## NON-METALLIC FLOOR HARDENER

### DESCRIPTION

**SURFLEX** is a quartz-silica mixture of finely graded non-metallic aggregates, plasticizer and cement binder. It is an economical concrete floor hardener recommended for both interior and exterior use. It is particularly valuable because of its non-rusting characteristics when floors will be frequently wet. SURFLEX is available in several colors.

### PRIMARY APPLICATIONS

- Lobbies and waiting rooms of commercial and public buildings
- Corridors and washrooms in institutional and public buildings
- Auto showrooms and service centers
- Factory and warehouse floors
- Commercial and industrial facilities
- Restaurants and dairies

### FEATURES/BENEFITS

- Hardens concrete in one economical operation
- Use of hard and properly graded aggregates increases the wear resistance over plain concrete floors
- Ready-to-use factory blend eliminates messy and expensive job mixing and minimizes errors
- Non-rusting materials make it possible to use SURFLEX outdoors as well as indoors

### TECHNICAL INFORMATION

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

**Compressive Strength** ASTM C 109, 2 in. (25 mm) cubes

Mixed at 5.25 lb (2.38 kg) of water per 50 lb (22.7 kg) bag

psi (MPa)

7 days.....10,000 (69.0)

28 days.....12,000 (82.8)

**Relative Abrasion Resistance** ASTM C 779

**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)

**Appearance:** SURFLEX is a free flowing powder as packaged. Standard colors are Natural (cement-colored), Light Gray, and Light Reflective. SURFLEX 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 texture normally achieved with concrete and should be specified by the owner. In addition, the joints of a SURFLEX floor can be filled with a matching color available in EUCO QWIKJOINT UVR polyurea joint filler.

### PACKAGING

SURFLEX is packaged in 50 lb (22.7 kg) bags

### SHELF LIFE

2 years in original, unopened package

### SPECIFICATIONS/COMPLIANCES

Canadian Food Inspection Agency compliant

### COVERAGE

SURFLEX may be applied at rates from 0.5 to 2.0 lb/ft<sup>2</sup> (2.4 to 9.8 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.*

**Application Tips:** Colored (pigmented) dry shakes require special attention for a uniform color. If the job involves placement of SURFLEX, 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, and do not burnish trowel the floor. Best appearance is achieved by hand troweling 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 curing compound such as KUREZ DR VOX, then densify with EUCO DIAMOND HARD.

## CLEAN-UP

Clean tools and equipment with soap and water before 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.
- 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.
- For additional abrasion resistance beyond that offered by SURFLEX, consider the use of EUCO-PLATE HD, an iron aggregate floor hardener.
- 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.

Rev. 01.19

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