



# 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 non-fading standard colors as well as natural cement color.

### 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 operations
- 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
- Eucon dispersing agent contained in SURFLEX makes it possible to incorporate SURFLEX into the surface of low slump concretes resulting in exceptionally high surface strengths for maximum wear resistance
- Non-rusting materials make it possible to use SURFLEX outdoors as well as indoors

### TECHNICAL INFORMATION

Material properties tested under laboratory conditions @ 27°C, 50% RH.

PROPERTIES	VALUE
Compressive Strength ASTM C 109, 50 mm cubes	7 days - 60 MPa 28 days - 67.5 MPa
Water Powder Ratio	0.11 - 0.12

**Appearance:** SURFLEX is a free flowing powder as packaged. It is available in a natural cement color (standard). It is also available in red, grey, green, yellow, terracotta, black and white. 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 Surfex floor can be filled with a matching color available in the EUCO QWIKJOINT UVR polyurea joint filler product.

RELATIVE ABRASION RESISTANCE ASTM C779		
Age	Abrasion @ 30 min.	Abrasion @ 60 min.
7 days	0.48 mm	1.07 mm
28 days	0.33 mm	0.91 mm

### PACKAGING

SURFLEX is packaged in 25 kg HDPE bags with polyethylene liners for moisture protection.

## SHELF LIFE

12 months in original, unopened package

## COVERAGE

SURFLEX may be applied at rates from 3.0 to 7.0 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.

CONSUMPTION RATE kg/m <sup>2</sup>	TRAFFIC
3.0	Light Duty
5.0	Medium Duty
7.0	Heavy Duty

## SPECIFICATIONS/COMPLIANCES

ASTM C779, Canadian Food Inspection Agency

## 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 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 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 manufacturer 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.
- In all cases, refer the Safety Data Sheet before use.