



SURFLEX E

NON-METALLIC, EMERY AGGREGATE FLOOR HARDENER

EUCLID CHEMICAL

PACKAGING

50 lb (22.7 kg) bag

Code: 166V 50

APPROXIMATE COVERAGE

SURFLEX E may be applied at rates from 1.0 to 2.5 lb/ft² (4.9 to 12.2 kg/m²). 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.

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 E is a mixture of cement and graded emery aggregates. It is a wear resistant concrete floor hardener recommended for both interior and exterior use, and is particularly valuable because of its non-rusting characteristics when floors will be frequently wet. SURFLEX E is only available in a natural cement gray color.

PRODUCT CHARACTERISTICS

FEATURES/BENEFITS

- Use of hard and properly graded emery 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 E outdoors as well as indoors

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

APPEARANCE

SURFLEX E is a free flowing powder as packaged. It is available in a natural cement color only. 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 5.25 lb (2.38 kg) of water per 50 lb (22.7 kg) bag 7 days 12,000 psi (82.8 MPa) 28 days 15,000 psi (103.4 MPa)
ASTM C779	Relative Abrasion Resistance	Abrasion @ 30 min. Abrasion @ 60 min 7 days 0.016" (0.41 mm). . . . 0.033" (0.84 mm) 28 days 0.015" (0.38 mm). . . . 0.027" (0.69 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: 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.

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 EUCO DIAMOND HARD.

PRECAUTIONS/LIMITATIONS

- The use of supplementary cementitious materials are not recommended for use with a dry shake hardener
- Do not cure this product with UltraSil 7 or UltraSil DC9
- For additional abrasion resistance beyond that offered by SURFLEX E consider the use of EUCO-PLATE HD an iron aggregate floor hardener.
- 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.
- 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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