



SURFLEX E

NON-METALLIC, EMERY FLOOR HARDENER

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. It is particularly valuable because of its non-rusting characteristics when floors will be frequently wet. **SURFLEX E** is only available in natural colour.

PRIMARY APPLICATIONS

- Lobbies and waiting rooms of commercial and public buildings
- Corridors and washrooms in institutional and public buildings
- Auto showrooms and service centres
- 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 E outdoors as well as indoors

TECHNICAL INFORMATION

Typical Engineering Data

Compressive Strength ASTM C 109, 50 mm cubes
Mixed at 2.62kg of water per 25kg bag

Age	Strength (MPa)
7 days.....	54.0
28 days.....	80.0

Relative Abrasion Resistance ASTM C 779

Age Abrasion @ 30 min. Abrasion @ 60 min

Age	30 min	60 min
7 days	0.41 mm	0.84 mm
28 days	0.38 mm	0.69 mm

Appearance: SURFLEX E is a free flowing powder as packaged. It is available in a natural cement colour only. The final finish can be any texture normally achieved with concrete and should be specified by the owner.

PACKAGING

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

SHELF LIFE

2 years in original, unopened package

COVERAGE

SURFLEX E may be applied at rates from 4.0 to 6.0kg/m². Higher application rates yield better total abrasion resistance. Greater application rates may be used with special considerations. Contact Flowcrete Asia representative for recommended procedures.

DIRECTION FOR USE

The contractor and engineer are encouraged to visit Flowcrete Asia's Website to review the "**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 Flowcrete Asia representative for additional information.*

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 curing compound such as AQUACURE VOX 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
- For additional abrasion resistance beyond that offered by SURFLEX E consider the use of DIAMOND-PLATE 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 Flowcrete Asia Company if applied over air entrained concrete with more than 3% total air content.
- Store product in a dry place.
- In all cases, consult the Safety Data Sheet before use

Rev: 20/08/18