

SEALEX EP

Breathable Water Based Matt Epoxy Sealer

Description:

SEALEX EP is a unique water-based high solids breathable epoxy top interior coat sealer for various flooring and wall systems. It can be applied in films up to 400 microns without impacting cure properties. It gives good protection against abrasion and high traffic wear. This product is ideal for any floor or wall coating project needing a high-build coating system that is moisture vapor tolerant, and chemically resistant. SEALEX EP is a 100% solid, very low viscosity, high modulus epoxy sealer. It is moisture insensitive and can be gravity fed on horizontal surfaces or pressure injected into vertical and overhead concrete and masonry for structural repairs.

Uses:

Epoxy sealers form a high-build protective film on the concrete surface, producing a hard, long-wearing, abrasion-resistant finish. They also offer excellent water repellence. SEALEX EP can be also used in the following application:

- Interior, horizontal and vertical, sealing applications.
- Sealing severely cracked or extremely porous horizontal surfaces, bridge decks, parking garages, ramps, runways, and industrial floors.
- Crack injection repairs of beams, walls, single or double T's, cast in place and precast concrete members, repair of carbonated, dusting, concrete surfaces.
- Because epoxies may yellow when exposed to UV, they are generally limited to interior use. On decorative floors, a high-gloss epoxy finish will enrich the color and bring the design to life while protecting the floor from abrasion and foot traffic.

Advantages:

- Extremely low viscosity for increased depth of penetration.
- Exceptional flexural and slant shear strengths for sound structural repairs.

- Fills hairline cracks, pores, and capillaries to effectively seal horizontal concrete surfaces for protection against liquid borne salts and contaminants.
- Moisture insensitive formulation allows repair of damp surfaces and cracks.
- High compressive and tensile strengths for durable repairs of load bearing precast members and cast in place foundations and walls.
- Breathable (moisture vapor tolerant)
- Low odor.
- Meets USGBC-LEED low VOC requirements.
- Good chemical resistance.
- Excellent abrasion resistance.

Instructions for Use:

Surface Preparation:

All concrete must be fully cured and aged a minimum of 28 days before SEALEX EP application. Surfaces must be free of all materials that would interfere with adhesion such as curing and sealing compounds, paints, oil, grease, etc. Mechanical texturing or removal of previous coatings is preferred over chemical methods. Hairline cracks should be vacuumed or blown free of dust and dirt with oil free compressed air.

Mixing:

SEALEX EP must be mixed mechanically with low-speed drill mixer fitted with suitable paddle. To prepare the mix, add the contents of Part B (hardener) to Part A (base) container, and mix for minimum of 3 minutes till obtaining a homogeneous mix. Then, slowly add 4.0 ltr. clean cold water to the mix (A+B) under constant stirring. Do not mix the base and the hardener partially. Mix the complete kit at a time.

Application:

Floor Sealer:

Apply SEALEX EP using a flat squeegee and back roll with a high quality 3/16" nap roller.

Allow to cure 24 hours minimum before opening to traffic. (Cure times will vary dependent upon environmental conditions)

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Topcoats can vary depending on the specific flooring system installed and desired finish. Cross hatch back rolling is recommended for uniformity.

Hairline Cracks or Distressed Surfaces:

Immediately pour mixed material onto the slab in a ribbon pattern. Once on the slab in a thin film the product will remain at a low viscosity for approximately 40 minutes. Use a straight blade squeegee, roller, or push broom to distribute SEALEX EP evenly across slab. Allow sealer to penetrate into the surface. To obtain a uniform surface very porous or cracked concrete may require a second application of SEALEX EP. The second coat should be applied within 24 hours.

Floor Overlays/Patching:

Prime repair area with neat SEALEX EP to ensure a successful bond. Blend clean dry sand into prepared SEALEX EP to develop a mortar consistency. Place mortar onto primed area and finish with trowel.

Standards:

- EN 1504-2

TECHNICAL PROPERTIES	
Appearance	Fluid Liquid
Color	Milky Liquid
Density	1.0 ± 0.03 kg/lit
Potlife at 25°C	45 minutes
Dry Residual	65%
Hardening at 25°C recoat interval	5 hours
Application Temperature	+5°C to +40°C
Bond Strength	>2.5 N/mm ² cohesive failure
VOC	<50 g/lit

*Values indicated may vary depending on the environment and conditions of the material. Figures given are tested according to standard laboratory conditions.

Coverage:

SEALEX EP achieves a coverage of 4-5 m²/lit@100 micron DFT depending on the surface porosity and substrate condition.

*Coverage rate is an approximate value, and subject to actual site conditions.

Packaging:

SEALEX EP is available in a set of 4 and 15 liter supplied in dual pack kit.

Storage Conditions:

Store in original packing in dry conditions away from direct sunlight. Damaged packaging, high humidity or extreme temperatures may reduce the shelf life. Store between 10°C to 30°C.

Shelf Life:

SEALEX EP can be utilized within 12 months of production date if stored in proper conditions in an unopened original packing.

Cleaning:

Clean all tools and equipment with water prior to full drying of product. Once hardened, the product may be removed mechanically.

Limitations:

- Avoid applying SEALEX EP during times of extreme heat. Application should be scheduled for early morning or late afternoon when ambient and substrate temperatures are at their lowest.
- SEALEX EP is intended for use at surface temperature above 50°F (10°C).
- Do not apply where moisture will penetrate surface.

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Health and Safety:

- Avoid contact with eyes and skin. Wear suitable protective clothing such as coveralls, goggles, dust mask and gloves. Use barrier cream. Ensure that there is adequate ventilation. Do not breathe vapour or spray mist.

FIRST AID:

- Eyes: In the event of accidental splashes, flush with warm water and seek medical advice.
- Skin: Wash skin thoroughly with soap and water
- Inhalation: Remove to fresh air, keep patient rested
- Ingestion: Do not induce vomiting. Seek immediate medical attention.

For further safety information, please refer to SEALEX EP Material Safety Data Sheet.

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