

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. This product is ideal for any floor or wall coating project needing a high-build coating system that is moisture vapor tolerant, and chemical resistant protection. SEALEX EP is a 100% solids, 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 is a two component epoxy that must be mixed prior to use. Use entire content; do not use partial containers.

Pour all of the PART B Hardener into the PART A Resin. Carefully scrape the bottom and sides of PART B container to ensure all material is used. Mix thoroughly for 2 to 3 minutes using a low speed mechanical drill and jiffler type mixing prop. Avoid incorporating air into the mixture. Do not leave mixed SEALEX EP in the mixing vessel. Storing mixed material in mass quantity will cause the material to thicken quickly and make the product unusable.

Application:

Top floor Sealer:

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

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Coverage is 100-200 ft²/gal to achieve 4-8 mils dry topcoats will vary depending on the specific flooring system installed and desired finish. Cross hatch back rolling is recommended for uniformity.

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

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:

SEALEX EP conforms to:

- ASTM D 695, C 882, D 790, D638

TECHNICAL PROPERTIES:	
Mixed Viscosity	: <90cps
Recoat Time	: 24 hours
Tensile Strength	: 48 MPa
Tensile Elongation	: 3 TO 7%
Compressive Strength	: 72 MPa
Slant Shear/ Bond Strength	: 10 MPa
Flexural Strength	: 62 MPa
VOC	: <50 g/L
Solids Content	: 58% by volume
Bond Strength to Concrete	: 3.2 N/mm ² (100% concrete failure)
Pot Life	: 25-35 minutes
Dry Touch	: 6 hours
Light Traffic	: 24 hours

Estimating Guide:

1 st Coat	: 2.5 to 4.0 m ² /L
2 nd Coat	: 3.7 to 7.4 m ² /L

Packaging:

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

Storage Conditions:

Store unmixed material in cool dry place out of direct sunlight and heat in tightly closed containers.

Cleaning:

Immediately after use, clean tools and equipment with xylene, xylol, or glycol ether PM

Shelf Life:

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

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.

Health and Safety:

- Use goggles and gloves during application. Do not breathe the vapor of the product. Use only in well ventilated areas.
- Avoid contact with eyes or skin. In case of contact with eyes, clean with plenty of clean water and seek medical assistance.
- Avoid direct contact with flames and fire.
- Before use, read MSDS of the product.

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This technical data sheet is not considered as local building codes. It shall be used as general reference for the product, based on our current knowledge and experience. However the company do not accept any liability arising from the use of its products as it has no direct control on how and where the product is applied.

