

SEALEX PU

Water Based Clear Polyurethane Sealer

Description:

SEALEX PU is a clear two component, chemical resistant, high solids aliphatic polyurethane sealer. It is a very low VOC top coat that meets all environmental air quality standards. SEALEX PU offers excellent abrasion resistance, chemical and stain resistance. It can be used equally well on vertical or horizontal surfaces. It is ideal for flooring systems in warehouses, storage facilities, vehicle maintenance facilities, aircraft hangars, animal housing, restrooms, restaurants and numerous other coating applications.

SEALEX PU unique low viscosity and high dispersion allow it be more easily absorbed into the surface, thereby forming a thinner film that is more natural looking and is less prone to scratching compared to other resinous coatings, and making it more suitable for decorative applications where a natural appearance is desired.

Uses:

- Ideal for decorative applications where a clear, more durable and chemically resistant protective coating than conventional acrylics is sought for protecting terrazzo, new & old stamped, concrete exposed aggregate concrete, plaster, decorative overlays, natural stone, and other masonry surface.
- May be used as a high performance clear concrete and masonry sealer with protection against stain & moisture penetration.
- May also be used as a UV-resistant clear top coat over decorative epoxy flooring.
- Is also generally used as a waterproofing, protective, UV and chemically resistant topcoat for resinous and cementitious surfaces in hospitals, laboratories, retail showrooms, offices, processing plants, workshops and wet areas.
 - Before applying a sealer, the surface must be clean, dry and free of all contaminants including dirt, soil, rust, lime, waxes and previous treatments. All application equipment should be clean and in good working, like-new condition.

2. On highly porous or textured surfaces, apply the sealer using a brush, a nap roller or using airless spray. The initial application should be liberal and heavy to ensure that an abundance of sealer saturates and penetrates into the surface. A “wet-on-wet” application may be necessary to achieve adequate protection, especially on highly porous surfaces.
3. On smooth, polished or dense surfaces, apply the sealer using a flat applicator, such as a lamb’s wool or microfiber applicator, rather than using a roller, brush or sprayer. This will help to avoid the application of too much product.

Advantages:

- Aesthetically pleasing natural appearance.
- Odourless and environmentally friendly water borne coating.
- Easy to apply with roller or brush.
- UV resistant.
- May be used as an alternative to concrete sealers and conventional acrylics.
- Excellent abrasion and chemical resistance.
- Resistant to staining including tire marks and hot tire pick up.
- May be applied directly to concrete, no primer is necessary.
- Weather and corrosion resistance.
- Available in both high gloss and matte grades.

Instructions for Use:

Surface Preparation:

All Surfaces should be sound, clean, dry and free from dust, oil, grease, laitance, curing agents, loose particles, wax, tar, mildew, mold, paint, sealers, coatings, and other contaminants. Wet substrates should be sponge dried to remove all free surface water then air dried. Treat oil or grease contamination with degreaser followed by water or steam cleaning. Floor area and the wall up to a height

SEALEX PU

of 200mm shall be thoroughly cleaned dry and free of dust, loose cement mortar, grease, oil, and other contaminants. Sand blasting or wire brushing is recommended in the case of smooth trowelled floors.

New concrete floors: should be at least 28 days old and have a moisture content of less than 5%. The relative humidity at the surface should not be more than 25% as per BS8201:1981. Excessive laitance should be removed by mechanical methods. Dust and other debris should be removed by vacuum cleaning. Any fine cracks or pin holes should be covered with LAVAPOXY FINISH or other epoxy-based mortar.

Old concrete floors: damaged areas or surface irregularities should be repaired using LAVAPOXY FINISH or other epoxy-based mortar. All cracks larger than hairline shall be considered as moving and must be repaired. All delaminated and splashed areas of concrete shall be repaired prior to application of SEALEX PU. Remove all unsound concrete. Patches shall be flush with the surrounding surface and shall match the texture of existing surfaces.

Epoxy screeds: high spots or trowel marks should be rubbed down. Remove dust and debris by vacuum cleaning.

Mixing:

Lightly stir the contents of the A component (pigmented part) for 2-3 minutes using a jiffy mixing blade attached to a low speed drill (200-300 RPM). Insure that the pigment is thoroughly and evenly distributed, eliminating any settlement that might have occurred in the container. Pour the contents of the B components (clear part) into the A component container, scraping the sides of the B component container to insure that the entire contents of the container are used. Mix thoroughly to a streak-free color uniformity using a jiffy mixing blade attached to a low speed mixer.

Application:

After mixing, SEALEX PU should be immediately applied to the dry surface while ensuring a continuous coating of uniform thickness is obtained. A stiff nylon brush or short nap roller is recommended for such application. For faster rates of application use an airless spray. A brush may be used for touch-

up and edging work or for areas unsuitable for spray or roller application.

SEALEX PU may be applied directly on concrete and masonry surfaces as a sealer coat. Do not apply subsequent coats until the SEALEX PU has dried. Two coats are recommended for flooring applications to achieve full protection effect.

Dry times will vary depending on ambient conditions. Water borne systems are sensitive to temperature and humidity changes: higher temperatures will shorten drying time, while higher ambient humidity will prolong drying time.

TECHNICAL PROPERTIES:

Color	: Transparent
Appearance	: Liquid
Mix Ratio	: A:B 9:1
% Volume Solid	: 45%
Mix Density	: 1:1
Viscosity	: 60 sec
Solid content	: 48%
Pot Life @ 23°C	:
Glossy grade	: 2:30 hours
Matte grade	: >60 min.
Dry time @ 23°C, 50% RH	:
Glossy grade	: 7.5 hours
Matte grade	: 1.5 hours
Physical Appearance	: Milky White or Colored
Dust Dry	: 35 min
Abrasive Resistance ASTMD406	: 35 g/1000 cycle
Abrasive Resistance (7days) ASTM C4060	: 35 g/1000 cycle
Set to foot traffic @25°C	: 12 hours

Packaging:

SEALEX PU is available in a set of 5 and 10 liter supplied in dual pack kit

Storage:

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

SEALEX PU

Coverage:

SEALEX PU coverage of 0.1 – 0.2 Kg/m² (2 coats) depending on porosity & texture of surface.

Cleaning:

Clean all tools with water prior to full drying of product.

Shelf Life:

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

Health and Safety:

- Use goggles and gloves during application. Do not breathe vapor of products. Use only in well ventilated areas.
- Avoid contact with eyes or skin.
- Treat any splashes to the skin or eyes with fresh water immediately. Should the product be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

Remarks:

- For exterior applications, it is important to pay attention to the current weather conditions as well as forecasted inclement weather.
- Avoid applying sealers on windy and/or hot days because the wind can blow sand and other debris onto freshly applied topical sealers, and high temperatures can make sealers “flash dry”, leaving streaks or other imperfections in the surface.
- For interior applications, be sure A/C unit and/or or heater is operating properly, to maintain an appropriate and constant interior temperature.

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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.

