

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 and chemical 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 thin 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.
- Used as a high-performance clear concrete and masonry sealer with protection against stain & moisture penetration.
- Used as a UV-resistant clear top coat over decorative epoxy flooring.
- Is also generally used as a protective, topcoat for resinous and cementitious surfaces in hospitals, laboratories, retail showrooms, offices, processing plants, workshops and wet areas.

Advantages:

- Aesthetically pleasing natural appearance.
- Odourless and environmentally friendly water borne coating, low VOC.
- Easy to apply with roller or brush.
- UV resistant.

- Excellent abrasion and chemical resistance.
- Resistant to staining including tire marks and hot tire pick up.
- Can 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 of 200 mm 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 BS 8201:1981. 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.

SEALEX PU

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). Ensure 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 ensure 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. 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 maybe necessary to achieve adequate protection, especially on a highly porous surfaces.

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.

SEALEX PU may be applied directly on concrete and masonry surfaces as a sealer coat. 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.

Standards:

- EN 1504-2

Packaging:

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

TECHNICAL PROPERTIES	
Color	Milky white or colored
Appearance	Liquid
Mix Ratio	93:7
%Volume Solid	>30%
Mix Density	1.02 ± 0.03 kg/lit
Viscosity	100-200 Cps
Workability@23°C	>60 minutes
Dry Time@23°C, 50% RH	
Glossy Grade	7.5 hours
Matte Grade	2.0 hours
Dust Dry	20 minutes
Abrasive Resistance (7 days) ASTM C4060	35 g/1000 cycle
Set to foot traffic @25°C	12 hours

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

Coverage:

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

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

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

Cleaning:

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

SEALEX PU

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 heater is operating properly, to maintain an appropriate and constant interior temperature.

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 PU Material Safety Data Sheet.

MATEX Rev.04-0223

MATEX warrants that its products are free from material and manufacturing defects. Instructions on how to use the product should be strictly followed to ensure effectivity and safe use. MATEX shall not be liable either directly or indirectly for any damages to personal, equipment or products that may occur as a consequence of the failure of any products application because it has no direct or continuous control over where or how its products are applied. It is the user's responsibility to acquire always the updated version of datasheets.

