

L'UNICFLOOR SL30

Solvent-Free Epoxy Floor Coating

Product Description

L'UNICFLOOR SL30 is a solvent-free epoxy-based floor coating consisting of solvent-free epoxy primer, intermediate coat, and a self-leveling coating based on solvent-free epoxy resin and its hardener cycloaliphatic polyamine. It is used to create a seamless, glossy, and flat appearance, suitable for all floors requiring hygiene, antistatic, chemical, and mechanical resistance.

Applications

- Hospitals
- Wet areas
- Food industry, heavy industries, hangars, logistics and storage facilities
- Military facilities with high traffic floors
- Kitchen and related areas
- Cold storage facilities
- Textile factory floors

Product Features and Benefits

- Extremely easy to apply.
- Provides a highly homogeneous glossy surface.
- Resistant to various acidic chemicals, primarily alkalis.
- Easily repairable.
- Antistatic coating with hygienic, antibacterial properties.
- Creates dust-free environments.
- Certified for Clean Rooms.

System Components

| | |
|---------------------------|--|
| UNEPOX 128-05 SF 2K | Solventfree Epoxy Concrete Primer |
| Silica Sand (0,1-0,3 mm) | Filler |
| UNEPOX SL 3K | Solvenfree Epoxy Selflevelling Sealer/Topcoat |
| Optional Component | |
| PU ACRYLIC TOPCOAT 2K | UV Resistant Aliphatic Polyurethane Topcoat (Glossy or Semi-Matte) |

Consumptions

| Product | Packaging | Consumptions | Colour |
|----------------------------|--------------------------------|-------------------------------|-----------------|
| UNEPOX 128-05 SF 2K Primer | 16 kg A + 4 kg B | 0,500 kg/m ² | Yellowish Amber |
| Silica Sand 0,3-0,7 mm | 25 kg | 1,000 kg/m ² | - |
| UNEPOX SL 3K Undercoat | 12,5kg A + 3,75 kg B + 8,750 C | 0,500-0,600 kg/m ² | RAL |
| UNEPOX SL 3K Topcoat | 12,5kg A + 3,75 kg B + 8,750 C | 3,000-3,200 kg/m ² | RAL |
| PLK TOPCOAT 2K Optional | 15,4 kg A + 4,6 kg B | 0,150 kg/m ² | RAL |

*Total Thickness ~2,5-3 mm

Surface Preparation

The concrete surface must be dry, clean, and have a strength of 25N/mm². The surface should be free of all dust, oil, and cement residues, and the surface to be treated should be dry up to 75% relative humidity according to BS8204.

Application

Priming

UNEPOX 128-05 SF 2K Solvent-Free epoxy-based primer is applied to the concrete surface using a roller or rubber squeegee at a consumption rate of 3-4 m²/kg. The consumption may vary depending on the absorbency of the surface. A layer of 0.3-0.7 mm silica sand is spread on the wet surface, and after 12-16 hours, any excess silica sand that does not adhere is removed from the surface by vacuuming or sweeping. If a second coat is required, it is applied using the same method 6-8 hours after the first coat has dried.

Intermediate Coat

UNEPOX SL 3K is mixed as an intermediate coat/sealer using a high-speed mechanical mixer (300-400 rpm). Initially, Component A is mixed, then Component B is added, and after approximately 3 minutes of mixing, Component C (Filler) is slowly added. It is crucial to mix the two components until a homogeneous mixture is achieved. Failure to mix the components properly can lead to areas on the floor that do not dry properly and result in application errors. The product is applied using an SBR Squeegee.

Final Coating

UNEPOX SL 3K is mixed using a high-speed mechanical mixer (300-400 rpm). Component A is mixed first, then Component B is added, and after an additional 3 minutes of mixing, Component C (filler) is slowly added. Once a homogeneous mixture is ensured, the application begins. It is essential to mix all three components thoroughly until a homogenous mixture is obtained to prevent incomplete drying and application errors. The product is applied to the floor using a V-notched steel trowel at a consumption rate of 3-3,2 kg/m². Any potential air bubbles are prevented by using a spiked roller. The drying time (at 25°C and 50% relative humidity) is between 16-24 hours. This time may vary depending on temperature conditions.

Cleaning

All tools should be cleaned with UP 002 Thinner, and hands should be washed only with mild soap and plenty of water.

Maintenance

Our UNİCA SFC Industrial Surface Cleaner is specially formulated to clean the applied system without damaging the floor. For detailed information about the product, please contact UNİCA's technical/sales department.

Repair

In areas where repair is necessary, damaged sections should be removed, and repairs should be carried out following the steps described above.

Limitations

- The L'UNICFLOOR SL30 Epoxy Conductive Coating system should be applied by experienced application teams.
- The application temperature range should be between 15°C-32°C.
- Drying and curing time will be slower at low temperatures and faster at high temperatures.
- The maximum relative humidity during application is approximately 85%.
- The surface temperature should be above the dew point of <3°C.
- The moisture content in the concrete floor should be <6% by weight.
- The presence of moisture on the floor during application may result in the risk of bubble formation on the surface.
- New concrete should cure for a minimum of 21-28 days.
- Before application, the surface should be cleaned of all dust, dirt, oil, and cement residues.
- If there is a risk of rain within 10-16 hours, you can continue the application. If the surface has been affected by rain, wait for the surface to dry completely before application.
- Depressions, cracks, holes, and damaged areas on the surface must be repaired and improved before application. Nevertheless, surface irregularities may appear more noticeable over the applied system due to the uneven surface structure of the concrete. This is not considered a product or application error.

- If there is a previous coating on the floor, a test application should be conducted at a suitable location on the floor to assess adhesion and other compatibility risks before starting the application.
- Products can deteriorate if exposed to open air and sunlight in their packaging. Therefore, they must be stored in their original sealed packaging in closed and cool storage areas.
- Mix the products with low-speed electric mixers. To eliminate the risk of inadequate mixing, transfer the mixed product to another empty container and remix if necessary.
- Do not add any solvent other than the one recommended by UNİCA.
- The consumption rates specified in this Application document are determined under ideal floor conditions. Please consult UNİCA's Technical Department for applications of different thicknesses.
- L'UNICFLOOR SL30 is not UV resistant; hence, it is recommended for indoor use.
- Stains may occur from prolonged exposure of the floor to chemicals such as hydraulic oil, petrol, diesel, antifreeze, immediate cleaning of the floor from these chemicals should be carried out upon contact.

Health and Safety Information

Refer to the material safety data sheets of the relevant products for safe usage and disposal of products.

NOTE

The explanations made on this technical page are based on test evaluations and results of the product according to relevant standards and are intended to provide guidance to applicators. Since labor, weather conditions, construction, equipment used, and other variables affecting the results are entirely beyond our control, UNİCA does not provide any explicit or implied warranties regarding this material. UNİCA only guarantees that the material complies with the product specifications, and its sole responsibility to the buyer or user of this product is limited to the replacement value of the product in case of manufacturing defects. In no event shall UNİCA be liable for any direct or incidental, special, or consequential injury, loss, or damage arising directly or indirectly from the material or work performed. UNİCA is not responsible for any defects, alterations, or changes in the substrate on which the products are applied.