

L'UNICFLOOR CR20

Cleanroom Certified Solventfree Epoxy Selflevelling Screed

Product Description

L'UNICFLOOR CR20 is a selflevelling floor coating consisting of a solvent-free epoxy primer, two 0,1-0,3 mm granule thicknesses of silica sand, and a self-leveling coating based on solvent-free epoxy resin and its hardener cycloaliphatic polyamine. It is used on all floors requiring hygiene, antistatic, chemical, and mechanical resistance, providing a seamless, glossy, and flat appearance.

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.

Sistem Bileşenleri

UNEPOX 128-05 SF 2K	Solventfree Epoxy Concrete Primer
Silica Sand (0,1-0,3 mm)	Filler
UNEPOX SL 3K as Sealer	Solventfree Epoxy Selflevelling/Sealer
UNEPOX SL 3K	Solventfree Epoxy Selflevelling

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CONSUMPTIONS

PRODUCTS	PACKAGING	CONSUMPTIONS	COLOUR
UNEPOX 128-05 SF 2K Primer	16 kg A + 4 kg B	0,300 kg/m ²	Yellowish
Silica Sand 0,1-0,3 mm	25 kg	0,600 kg/m ²	-
UNEPOX SL 2K Undercoat/Sealer	12,5 kg A + 3,75 kg B +8,75 C	0,600 kg/m ²	RAL
Silica Sand 0,1-0,3 mm	25 kg	0,700 kg/m ²	-
UNEPOX SLE 2K Topcoat	12,5 kg A + 3,75 kg B +8,75 C	2,600 kg/m ²	RAL

*Total Thickness~2 mm

Surface Preparation

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

Application

Priming

UNEPOX 128-05 SF 2K Solvent-free epoxy-based filled primer is applied to the concrete surface using a roller or rubber squeegee at a rate of 3-4 m²/kg. Consumption may vary depending on the absorbency of the surface.

0.1-0.3 mm silica sand is sprinkled onto the wet surface, and after 12-16 hours, any excess sand that does not adhere is removed from the surface by vacuuming or sweeping.

If a second coat is needed, it can be applied using the same method after the first coat has dried for 6-8 hours.

Intermediary Coat/Sealer

UNEPOX SL 3K intermediary coat/sealer is prepared by first mixing Component A with a high-speed mechanical mixer (300-400 rpm), followed by adding Component B and mixing for about 3 minutes until the application is ready. It is crucial to mix the two components until a homogeneous mixture is achieved. Failure to do so may lead to unsmooth application and non-drying areas on the floor. The product is applied using an SBR Squeegee.

Final Coat Application

UNEPOX SL 3K is prepared by initially mixing Component A with a high-speed mechanical mixer (300-400 rpm), then adding Component B and mixing for approximately 3 more minutes. Afterward, A+B:C (0.1-0.3 silica sand) should be added slowly while continuing to mix until a homogeneous mixture is obtained and ready for application. Once ensuring a homogeneous mixture, proceed with the application. It is essential to mix all three components thoroughly until smoothly blended. Failure to do so may result in non-drying areas on the floor. The product is applied to the ground using a V-toothed steel trowel at a rate of 2,6-2,7kg/m². Possible air bubbles can be prevented using a spike roller.

Drying time (at 25°C and 50% relative humidity) is between 16-24 hours. This time may vary depending on temperature.

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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 CR20 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 CR20 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 documents 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, UNICA does not provide any explicit or implied warranties regarding this material. UNICA 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 UNICA be liable for any direct or incidental, special, or consequential injury, loss, or damage arising directly or indirectly from the material or work performed. UNICA is not responsible for any defects, alterations, or changes in the substrate on which the products are applied.