

Technical datasheet

Floorcoat FC 88 2K Sport • High-Line Sport

Description:

FC 88 2K Sport is a non-yellowing, low odor, extremely durable two-component water-based Polyurethane lacquer for use as a topcoat on wooden floors in sport halls, gyms and fitness areas with extra high requirement for wear resistance.

FC 88 2K Sport can be used on previously lacquered, untreated, and machine-sanded floors. Untreated and machine-sanded floors should be primed with a Floorcoat FC primer before applying the FC 88 2K Sport as topcoat.

FC 88 2K Sport is approved according to the European sports standard EN 14904.

FC 88 2K Sport is indoor climate certified by Eurofins, ensuring that there are no chemical substances in the product that can negatively impact indoor air quality.

The product is intended for commercial use.



Instructions for use:

Lacquering of untreated and machine-sanded floors:

- The surface must be completely clean, dry, and free of dust, wax, grease, polish, soap residues, and similar substances. Dirt and unevenness are removed by sanding. The final sanding before applying a Floorcoat FC primer should be done with sandpaper grit 120-180.
- Carefully remove sanding dust by vacuuming and wiping the floor with a cloth wrung out in clean water.

- Prime the floor with a Floorcoat FC primer. Follow the preparation, application, and drying time instructions on the technical data sheet for the chosen Floorcoat FC primer.
- Shake the FC 88 2K Sport lacquer thoroughly until all settled material is dissolved. Add the hardener and shake thoroughly again for at least 45 seconds. Let the mixture rest for 10 minutes without the lid on. Then, put the lid back on and shake thoroughly again for at least 45 seconds before use.
- Apply the lacquer with a brush or a lacquer roller in an even layer in the direction of the wood grain, if possible. We recommend applying the lacquer from a roller tray instead of pouring it directly onto the floor.
- When the FC 88 2K Sport lacquer surface is dry after 3-4 hours, perform an intermediate sanding with sandpaper or sanding net grit 120-180. To ensure that the surface is completely dry, it is recommended to let the lacquered surface dry overnight before performing the intermediate sanding.
- Carefully remove sanding dust by vacuuming and wipe the floor with a cloth wrung out in clean water.
- Apply a 2nd coat of FC 88 2K Sport lacquer.
- After drying another coat of FC 88 2K Sport lacquer can be applied, if required.

Coverage and application of line marking paint:

See the technical data sheet for Floorcoat Sport-Line 2K line marking.

Lacquering of previously lacquered floors/New factory-lacquered floors:

- The surface must be completely clean, dry, and free of dust, wax, grease, polish, soap residues, and similar substances.
- Carefully sand with sandpaper or sanding net grit 100-150 to ensure good adhesion of the lacquer.
- Remove sanding dust by vacuuming and wipe the floor with a cloth wrung out in clean water.
- Apply 1-2 coats of FC 88 2K Sport lacquer and let the lacquer dry in between.
- Before lacquering the entire floor, it is recommended to perform an adhesion test on a small area.

Preparation of previously lacquered floors/New factory-lacquered floors:

It is always recommended to perform an adhesion test on a small area before starting to lacquer the entire floor. Lacquer a couple of small patches and let them dry for 24 hours. Then check the adhesion by scraping with the edge of a coin or the head of a key. If the adhesion is good and the surface looks nice, you can proceed with lacquering the floor. If the result is not satisfactory, the floor must be sanded down to bare wood before lacquering. Refer to the instructions under **Lacquering of Untreated and Machine-Sanded Floors**.

Important notices:

- Apply the lacquer at 20°C ± 5°C and 55% RH.
- There should be good ventilation during drying to ensure good drying conditions and a good result of the lacquered surface.
- FC 88 2K Sport lacquer must be mixed with the corresponding hardener before use.
- The primer must be completely dry before overcoating with FC 88 2K Sport.
- The use of a primer in a coating system, as well as achieving a stable climate in the rooms, reduces the risk of side bonding. However, this is not a guarantee that side bonding can be avoided.
- It is recommended only to apply two coats of lacquer per day and that the lacquered surface has dried overnight before performing an intermediate sanding.
- If a coat of lacquer is applied more than 24 hours after the previous coat, it is recommended to perform an intermediate sanding with sandpaper or sanding net grit 120-180 and clean as described under **Lacquering of previously lacquered floors**.

Product Data:

Product: 2-component polyurethane non-yellowing floor lacquer, water based with an Isocyanate hardener.

Mixing: 9 parts lacquer + 1 part hardener.

Coverage: Approx. 10-12 m²/L.

Before Application: Shake the lacquer thoroughly until all settled material is dissolved. Add the hardener and shake thoroughly again for at least 45 seconds. Let the mixture rest for 10 minutes without the lid on. Then, put the lid back on and shake thoroughly again before use for at least 45 seconds.

Opening time: The mixture must be used within 2 hours. Do not use the mixture after this time.

Thinning: Not recommended. The product is ready to use.

Application: Brush or lacquer roller.

Surface Temperature: 15-25°C.

Drying Time: Approx. 3-4 hours at 20°C, 55% RH. Different climate conditions can affect the drying time.

Curing Time: See **Usage instructions**.

Cleaning: Soap and water.

Storage: Above 5°C and below 30°C. Do not expose to frost or direct sunlight.

Shelf Life: 9 months in unopened packaging at 20°C. If the packaging has been opened, the lacquer may form a skin on the surface and potentially gel over time.

Precautions for Use: Refer to the product's safety data sheet.

Requirements for Sports Floors according to EN 14904: Fulfilled

Friction, EN13036-4, (88-110): Approx. 95.

Gloss ISO 2813, 85°, (under 45): Under 35.

Taber Abrasion Resistance ISO 5470-1, CS-10, (maximum 80 mg): Under 80 mg.

Reflectance, EN13745: 35.3%

Formaldehyde/PCP Emission, ISO 16000: None

IMPORTANT! Since we cannot guarantee against undesirable conditions on previously treated floors, a test application and inspection must always be performed before lacquering.

Usage Instructions: Do not use without a primer. The floor can be used with caution after 24 hours. The lacquer is fully cured after 7 days.

Cleaning Floors: Clean by vacuuming and wiping with a cloth wrung out in water or a mild neutral soap solution. Do not use brown soap, ammonia, or other strongly alkaline cleaning agents.

The information in this document and all other references and recommendations that we provide in connection with advising on the use of our products are the result of experience and are based on standard conditions. Due to the many possible uses and processing conditions, we do not exempt the user from conducting their own tests or seeking technical advice from the seller or manufacturer. There is no guarantee of the craftsmanship of work with our products, and documentation of this is the responsibility of the executing craftsman. As undesired effects can occur with re-lacquering, despite the work being carried out according to correct craftsmanship regulations, it is recommended that the contractor, to the extent necessary, takes these into account towards the customer. Recommendations from the manufacturer and any current standards must be followed. Our liability and responsibility follow our general terms and conditions of business and are not extended by this information or our advice. When new technical information emerges, the old version becomes invalid.