

ACRYFLEX T Cushion Plus Tennis Court Covering System

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System Description

Acryflex T Cushion Plus Tennis Court Covering System is an International Tennis Federation (ITF) approved sports surface covering system that can be applied to concrete or asphalt surfaces, consisting of approximately 4-5 mm thickness, high-performance pure acrylic latex polymer-based components.

Surface Preparation

The concrete or asphalt surface designated for the ACRYFLEX T Cushion Plus system must have completed a curing/drying period of at least 30 days and should not exceed 3% moisture content. There should be no level differences in concrete surfaces.

Concrete surfaces must be cleaned from dust, oil, and cement residues, and no surface hardening products that would adversely affect adhesion should be used. Asphalt surfaces should be poured to a minimum thickness of 8 cm according to sports surface coating infrastructure standards, and the slope of the surface should not exceed 0.83%.

Hairline cracks, joints, and damaged areas on concrete surfaces should be repaired and leveled with a cement + silica mixture mortar prepared with ACRYPATCH 367-C repair binder, and the surface must be thoroughly cleaned of any type of oil and oil derivatives.

Another important point; concrete surfaces should be poured taking precautions against any moisture or water that may come from below, if necessary, effective barrier membranes, fibers, or chemical moisture barriers should be used.

This application must be carried out by an application company approved by the manufacturer. After the surface preparation procedures described above, the application should be carried out according to the application instructions specified below.

ACRYFLEX T Cushion Plus SYSTEM COMPONENTS

System Components	Packaging
Acrypatch 367-C	15 kg or 50 kg packaging
AQ Primer 2K (For Concrete Subbase)	20 kg (A+B) 2K metal packaging
Acrylic Primer 367-28(For Asphalt Subbase)	50 kg plastic barrels
Acrylic Resurfacer 367/30	60 kg plastic barrels
UNIRUBBER PLUS 367-40	60 kg plastic barrels
UNIRUBBER 367-40	60 kg plastic barrels
Precoat 367-200	75 kg plastic barrels
Overline 367-F	2,5 kg metal packaging
Glosscoat 367-T(Optional)	50 kg plastic barrels

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ACRYPATCH 367-C (Acrylic Repair Binder)

Used for repairing surface defects such as cracks, depressions, and holes on the concrete or asphalt surface where the acrylic system will be applied. Pls find below mixing ratios.

Product name	Consumption
ACRYPATCH 367-C	17 kg
Silica Sand	70 kg
Cement	11 kg
Tap Water	Until it becomes mortar

Silica sand and cement are mixed in a clean container, and ACRYPATCH 367-C is added. Clean tap water is added until the mixture reaches mortar consistency and mixing is continued. The depth of the surfaces to be repaired should be between 0.4-4 cm. This repair mixture is not suitable for the repair of large areas exceeding 0.4-4 cm.

AQ PRIMER 2K (Epoxy Concrete Moisture Barrier Primer)

AQ Primer 2K is a two-component solvent-free epoxy concrete moisture barrier primer, which is the first component of the application. AQ Primer 2K strengthens the concrete structure, fills concrete capillaries to minimize water and moisture penetration, and enhances the adhesion strength of subsequent chemical layers. The recommended theoretical application rate is 0.4 kg/m², which may vary depending on the permeability of the surface. AQ Primer 2K is applied with a roller or a special rubber squeegee. Silica sand is sprinkled on it in the range of 100-300 microns while it is still wet to create an adhesion surface for the final coats. It is necessary to wait until maximum touch dryness is achieved for the subsequent coats. This is approximately 4-6 hours.

ACRYLIC PRIMER 367-28 (Acrylic Primer for Asphalt Surfaces)

ACRYLIC PRIMER 367-28 is a chemical and mechanically effective primer material that increases adhesion for asphalt surfaces based on pure acrylic. The product can be sprayed onto asphalt surfaces or applied with a roller or brush. The theoretical consumption is approximately 0.200 kg/m². The drying time is approximately 2 hours at 24°C.

ACRYLIC RESURFACER 367-30

A single-component water-based elastic pure acrylic-based pore-filling intermediate coating and leveling material. Before application, it is applied to the surface with a special rubber squeegee with a maximum of 80% (0.1-0.3 mm silica sand) + (20%) water added depending on the pore structure of the surface.

Typical Mixing Ratios

Product name	Consumption
ACRYLIC RESURFACER 367-30	60 kg
Silica Sand	40 kg (up to 80% can be added)
Tap Water	12 kg

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The theoretical consumption is 0.5 kg/m² (Based only on Acrylic Resurfacer 367/30). The amount of water and silica should be determined by testing in a certain area according to the pore structure of the surface. Since evaporation is faster in hot weather, up to 5% more water can be added to the existing water content. In outdoor applications at 24°C temperature and 60% humidity, the drying time of the product is approximately 3 hours. The product should be applied as homogeneously as possible. It should be considered that the drying time will be extended for thicknesses above 1 mm, and there may be film collapses/irregularities on surfaces where possible evaporation of water is difficult.

UNIRUBBER Cushion Plus 367-40 (Pure Acrylic-Based Flexible Coating)

Unirubber Cushion Plus 367-40 is a coating containing special thick granular metric recycled rubber within a pure acrylic gel formulation. It provides flexibility, which has a significant effect on game comfort. UNIRUBBER Cushion Plus 367-40 is applied in 5 coats after the Resurfacer application. The consumption is around 1.5 kg/m² for a total of 5 coats. Depending on the weather conditions and temperature, it can be thinned with tap water up to 25% before application. The application should be carried out by experienced personnel using a special rubber squeegee. The drying time between coats is approximately 3 hours under outdoor conditions at 24°C temperature and 60% humidity. The product should be applied as homogeneously as possible, and it should be considered that the drying time will be extended for thicknesses above 1 mm.

UNIRUBBER Cushion 367-40 (Pure Acrylic-Based Flexible Coating)

Unirubber Cushion 367-40 is a coating containing special granular metric recycled rubber within a pure acrylic gel formulation. It provides flexibility, which has a significant effect on game comfort. Unirubber Cushion 367-40 is applied in 3 coats after the Unirubber Cushion Plus 367-40 application. The consumption is around 1.2 kg/m² for a total of 3 coats. Depending on the weather conditions and temperature, it can be thinned with tap water up to 25% before application. The application should be carried out by experienced personnel using a special rubber squeegee. The drying time between coats is approximately 3 hours under outdoor conditions at 24°C temperature and 60% humidity. The product should be applied as homogeneously as possible, and it should be considered that the drying time will be extended for thicknesses above 1 mm.

PRECOAT 367-200 (Pure Acrylic-Based Tennis Court Topcoat)

PRECOAT 367-200 is a single-component colored quartz-enhanced high-performance topcoat for tennis courts based on pure acrylic latex. Thanks to its special texture, it is resistant to slipping and provides game comfort. The product can be thinned with tap water up to 25%. It is applied in two coats with a special rubber squeegee on a surface previously applied with Unirubber Cushion 367-40. The theoretical consumption is approximately 0,5 kg/m² for each coat. The Interval between coats is approximately 3 hours under outdoor conditions at 24°C temperature and in sunny weather.

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Important

- Do not add water more than 25% because may cause pigment floating and color separation may occur.
- It is crucial to apply Precoat 367-200 with a squeegee on the floor in an extremely uniform manner. Uneven thicknesses in the final application can lead to undesired outcomes over time, such as pinholes, film shrinkage, and cracks.

OVERLINE 367-F (Tennis Court Line Paint)

OVERLINE 367-F is an elastic line paint based on pure acrylic latex polymer with high covering power. Application is finished by painting two coats with a roller or brush on previously masked line areas after adding 10% tap water and mixing the product. Masking tapes are removed immediately after application.

Important Note: after applying masking tapes to the floor, make sure to prime the edges of the masking tape with ACRYLIC PRIMER 367-28 before applying OVERLINE 367-F. This helps prevent paint from seeping under the masking tape and ensures crisper line edges.

GLOSSCOAT 367-T (Acrylic Protective Varnish)

The product is a single-component transparent varnish based on pure acrylic latex. The product is ready for use and is poured onto the surface after simple mixing and spread with an SBR squeegee. Preferably, an operator helps the homogeneous adhesion of the varnish on the PRECOAT 367-200 by performing a sweeping motion with a short-haired roller immediately after this process. The product is an optional component and is an excellent choice for additional UV, scratch resistance, and dust repellency.

Cleaning

All tools should be cleaned with tap water, and hands should be cleaned with mild soap and plenty of water only.

Maintenance

Our UNICA SFC Industrial surface cleaner is specially formulated to clean the applied system without damaging the surface. For detailed information about the product, please contact the UNICA technical/sales department.

Repair

In areas where repair is necessary, damaged areas should be removed and repaired following the steps described in the job description above.

Important Notes

- The ACRYFLEX T Cushion Plus flooring system should be applied by experienced application teams.
- Application should be carried out outside the temperature range of 15°C-35°C.
- The 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.
- The moisture content in concrete surfaces should be <6% by weight.
- If there is moisture on the surface during application, undesirable conditions such as local drying delays, adhesion problems on the surface, local color variations and eventual peeling of the coating film may occur.

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- A minimum of 21-28 days is required for the curing of new concrete or asphalt.
- Before application, the surface should be cleaned of all dust, dirt, oil, and cement residues.
- If there is a risk of rain 10-16 hours after the application, you can continue the application. If the surface has been affected by rain, wait for the surface to dry completely before applying.
- Depressions, cracks, holes, and damaged areas on the surface should be repaired and improved before application. However, surface irregularities may be more pronounced on the applied system due to the irregular surface structure of the concrete. This is not considered a product or application error.
- If there is a pre-existing coating on the application surface, a test application should be performed in a suitable area of the surface to assess adhesion and other compatibility risks before starting the application.
- Products can deteriorate in their original sealed packaging if exposed to open air and sunlight. Therefore, they must be stored in closed and cool storage areas in their original sealed packaging.
- Products should be mixed with low-speed electric mixers only. If there is a possibility of not mixing, the risk can be eliminated by transferring the mixed product to another empty container and mixing it again.
- Do not use any thinner other than those recommended by UNICA.
- The consumption rates specified in this application document are determined under ideal surface conditions. Please contact the UNICA technical department for different thickness applications.
- ACRYFLEX T Cushion Plus system has a specific UV resistance. For higher performance requirements, we recommend using our optional product GLOSSCOAT 367 T.
- In case of prolonged contact of hydraulic oil, gasoline, diesel, antifreeze, and similar chemicals with the surface, stains may occur. In case of contact with these chemicals, surface should be cleaned without delay.

Health and Safety Information

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

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.