

## PU TOPCOAT WB 1K

### Water-Based Aliphatic PUD Elastic Topcoat

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#### DESCRIPTION

Elastic PUD-based colored/transparent, water-based aliphatic matte/semi-gloss topcoat paint.

#### APPLICATION AREAS:

- Protective topcoat over all types of poured, tiled, or rolled SBR/EPDM surfaces
- Protective/renewing topcoat on EPDM textures in athletic tracks
- Economical and quick renewal of worn tile, SBR, EPDM surfaces
- Fitness, children's play area floors
- Elastic matte UV-resistant topcoat for athletic tracks and walkways
- Safe to use for repairs or renovations of existing polyurethane-coated sports floors

#### ADVANTAGES:

- High elasticity, tear, and scratch resistance
- Excellent adhesion properties as the final layer material for L'unicflex Multi systems
- High resistance to moisture and optimal curing time
- Provides an aesthetically pleasing appearance to the surface with high UV resistance
- Can be safely applied on sports surfaces under all weather conditions
- Achieves excellent mechanical strength upon full curing. Resistant to water, seawater, wastewater, some alkaline environments, diluted acids, mineral oils, and fuels
- Can be produced in desired RAL colors

Special colors are available based on laboratory approvals, minimum production quantities, production lead times, and additional costs. For this, you can contact the BOYTEM TECHNICAL SERVICE DEPARTMENT.

#### TECHNICAL DATAS

COLOR	RAL Colors
MIXING DENSITY (20°C)	1.29 g/cm <sup>3</sup>
SOLID CONTENT	%43
Surface Application Temperature,	+10°C to +40°C
Surface Drying Time (20°C)	2 h
Full Curing Time (20°C)	18 h
Applicable Relative Humidity	%40-90
Full Curing Time	7 days

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### **SURFACE PREPARATION:**

PU TOPCOAT WB 1K is applied after poured SBR, EPDM applications have started to cure. No primer is needed before application. The surface to be coated must be solid, dry, smooth, free of rubber residues that may weaken adhesion, oil, paint, and other dirt.

If a renovation or repair is being carried out on previously coated SBR, EPDM, or tile rubber surfaces, an adhesion test must be performed before application. Surfaces with worn paint and coating can be coated with PU TOPCOAT WB 1K following mechanical abrasion and cleaning. The surface for application must have a temperature at least 3°C above the dew point.

### **PU TOPCOAT WB 1K APPLICATION**

PU TOPCOAT WB 1K is a ready-to-use product. The optimal working temperature range is 15-25 °C. After opening the product packaging, it should be thoroughly mixed with a high-speed mixer at 300 revolutions per minute for 2-3 minutes to ensure homogeneity.

Once homogeneously mixed, the product is applied in two coats with a consumption rate of 0.130 kg/m<sup>2</sup> per layer on poured SBR, EPDM surfaces using an airless/air spray gun, followed by backrolling with a short-pile velvet roller if preferred.

During the first 6 hours of application, the surface must be protected from direct water contact. Avoid applying when atmospheric conditions indicate rain exposure.

In low temperatures, the drying time will be prolonged, which in turn extends the curing time. This should be considered for subsequent coat applications. At higher temperatures, the drying speed will increase, so preparations should be made to ensure the fastest application possible.

If necessary, the product can be diluted by adding tap water at a ratio of 10-15%.

### **CLEANING**

Reusable application tools can be cleaned with tap water. Avoid using alcohol-based or aromatic solvents as cleaners.

### **WEATHER CONDITIONS**

Do not apply during rainy weather or while it is raining. Additionally, the surface temperature of the applied area should not be below 10°C or above 50°C.

### **INDOOR APPLICATION CONDITIONS**

High relative humidity and low temperatures in indoor applications could lead to an extended drying time for the coating.

### **CONSUMPTION**

Theoretical consumption: 0.130 kg/m<sup>2</sup> per layer (Depending on surface permeability and porosity). Do not apply the material in temperatures below 15°C or above 35°C.

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### IMPORTANT NOTE

Consumption rates may vary depending on surface porosity, ambient temperature, and application technique.

### POINTS TO BE CONSIDERED

- During application, if the ambient and surface temperature is above +30°C or below +10°C, appropriate temperatures should be awaited. Moreover, applications should not be carried out in extremely hot, rainy, or windy conditions.
- Application materials should be brought to the application area 1-2 days in advance and maximum compliance with ambient conditions should be ensured.
- In cold weather applications, heating devices should be used to increase ambient and surface temperatures. To enhance the workability of the material, packaging should be conditioned at +20-+25°C before use.
- A finished coating should be protected from water contact for at least 24 hours. Sudden temperature drops can cause the application surface to become dull and have a stained appearance. Therefore, in conditions where there are extreme day/night temperature differences, the application should start early in the day and finish on the same day. Immediate water exposure after application may lead to carbonization, resulting in the formation of a sticky film on the surface, necessitating the complete removal and reapplication of the coating.

### STORAGE

The product should be stored in its original sealed packaging, unopened, in dry conditions within a temperature range of 10°C to 35°C. Additionally, protect the product from freezing. The shelf life of the product in cool and dry environments is 9 months from the production date.

### SAFETY

PU TOPCOAT WB 1K, in its cured state, is not classified as hazardous and does not contain harmful components such as formaldehyde, asbestos, or mercury. For more detailed information, refer to the Material Safety Data Sheet.

### NOTE

The explanations provided on this technical sheet are based on test values and results conducted according to relevant standards with the aim of guiding applicators. Due to factors such as workmanship, weather conditions, construction, equipment used, and other variables that may impact results, UNICA does not provide any explicit or implicit warranties regarding this material. UNICA solely guarantees that the material is suitable for its intended purpose, and its sole responsibility to the buyer or user is limited to replacing the product in case of manufacturing defects. Under no circumstances is UNICA liable for any direct or incidental, special, or consequential injuries, losses, or damages arising from material use or application. UNICA holds no responsibility for any defects, alterations, or changes in conditions within the substrate where the products are applied.