

# pleyers. WB 800 Color PU Top-Coat

porviva® system product and single product



... is a solvent-free, water based, UV stable, low viscosity, 2 component, colored and hydrous PU Top-Coat with a glossy finish.

### Characteristics:

Due to its low viscosity, **pleyers. WB 800 Color** has good capillary activity and good adhesion on non absorbent surfaces. The material is easy to use and easy to clean; it makes it possible to get rid of hard to clean residues by use of suitable solvents. Depending on the usage, it is resistant to fresh water, sea water and waste water, also resistant to mineral oil, grease and fuels, as well as basic and diluted acids and salt solutions. Has excellent resistance to weathering and is resistant to UV radiation. A fully cured **pleyers. WB 800 Color** exhibits excellent mechanical resistance, resulting in increased scratch resistance of the flooring.

### Application:

**pleyers. WB 800 Color** is used as a scratch resistant and easy to clean top coat on primed concrete or screed or on with **porfil. Plus X** primed mineral surfaces for interior and exterior use. The weathering and UV stability of the flooring will be increased.

### Preparation of subfloors

Before starting to work, the quality of the concrete or screed should be tested for its suitability. The surface should be cleaned from dirt, dust, slurry, oil and such materials that might act as adhesion barrier. Such preparation can be achieved by blasting or sanding with subsequent cleaning. Surface preparation ensures adhesion, roughness and absorption. High density floorings (such as vacuum concrete or hard resin screeds) a mechanical surface preparation must be realised in order to achieve fine roughened surface. Only on such surface the material can build up sufficient adhesion. On magnesia containing surface's wax or oil saturated top layer should be removed. After the preparation of the surface, the average cohesion value of the concrete should be min. 1,5 N/mm<sup>2</sup> ( 1,0 N/mm<sup>2</sup> to be the smallest). To arrange an early reworking capacity the surface should be blocked with **porfil. Plus X** against residual moisture. The surface must be secured from negative water pressure by any kind of a **porfil.** Primer. In addition the requirements out of the relevant standard procedures for the surface must be fulfilled.

### Mixing

**pleyers. WB 800 Color** is packed in right mixing ratio, in two separate cans, comp. A is the main component and comp. B is the Hardener. The B component should be emptied fully into the can of component A. In order to achieve a homogeneous consistency and intensive mixing, both components must be mixed with an electric mixer at 300 U/min. The material at the bottom and the sides of the can should be mixed also. As a result, a homogeneous and free from reams mixture should be achieved with an minimum mixing time of 3 minutes. Please sieve the material and do not use it directly from the original container. It should be transferred to a clean container and mixed for another minute. The mixed material should be in temperature range between 15°C and 25° C.

### Application

After mixing of **pleyers. WB 800 Color**, it can be applied by roller in diagonal out of a trough with running surface. Best results are obtained with lint free varnishing rollers produced for water based varnish with 6-7 mm pile. After consultation it can also be applied by suitable spraying techniques. Roller lines should be reworked within 8-10 minutes, otherwise lines might be formed. In case re-coat window time has been exceed, or application on old coating is realised, or in case of repair jobs, the surface should be sanded for better adhesion between two coats. The consumption in each layer is 100-200 g/m<sup>2</sup>, depending on surface roughness. For better aesthetic appearance and increased mechanical and chemical value, a second layer can be applied at a consumption of 100-200 g/m<sup>2</sup> (notice the waiting time). Consumption values should be observed closely; otherwise partial foaming will cause surface deformation. For a higher abrasion and scratch resistance, second layer must be applied. By request out of optical reasons a layer of mat PU-Top Coat can be applied (**pleyers. WB 800 mat**).

Besides the surrounding temperature, the surface temperature must also be observed. At low temperatures, the chemical reaction time becomes longer. Besides the application time, re-coating time and ready for traffic times become longer. Meanwhile the viscosity of the product becomes higher, resulting in higher consumption per square meter. In case of high temperatures, the reaction becomes shorter as well as the times stated above. The relative atmospheric humidity should also be observed.

For **pleyers. WB 800 Color** to cure fully, the surface temperature should not fall below the given application temperature. Care should be observed, after application, the coating should be protected from water for 24 hours ( 23°C, 50% r.h.) Contact of the water within this period might cause foaming on the surface of the coating. In general, rules for resin chemistry, should also be observed with this product.

Note: In order to maintain the optical appearance of the surface, mat coatings, due to their surface properties, must be more often cleaned as the gloss types. In areas with a mat finish, depending on load of traffic, cleaning procedures must be repeated more frequently than in areas with glossy coatings.

### Storage/Protection/Waste disposal

Sealed containers to be stored dry and between 15-25°C. Protect from direct sun light. In this case shelf life is 6 months. Cured **pleyers. WB 800 Color** is not hazardous or toxic. During the application, the physical data, safety rules, toxicological and ecological values, as well as transport and waste disposal regulations should be observed from relevant technical data sheets and MSDS. All rules and regulations regarding use of polyurethane and isocyanate should be followed.

### GISCODE:

GISCODE PU10

### Transport:

Not a dangerous good (ADR/RID, IMDG-Code, ICAO-TI/IATA-DGR).

### Packaging:

**pleyers. WB 800 Color** 6,00 kg Units

(Comp. A 5 kg / Comp. B 1 kg)

**pleyers. WB 800 Color** 20,00 kg Units

(Comp. A 16,67 kg / Comp. B 3,33 kg)

### Palettising (Euro-Pallet):

**pleyers. WB 800 Color** 39 Units á 6,00 kg

(234 kg per pallet)

**pleyers. WB 800 Color** 18 Units á 20,00 kg

(360 kg per pallet)

### Other:

Delivery only for commercial or industrial use.

### Up-to-date: 09.01.2017

Current technical datasheet: info@porviva.com

<b>Technical Data*</b>			
Binder	polyurethane		
Density (DIN 53217)	coloured	g/cm <sup>3</sup>	1,04
Solid Content		%	appr. 57
Viscosity	25 °C (transparent)	m-Pas	295
Mixing Ratio		by weight	A 5 : B 1
Pot-life (20-kg)	20 °C	h	appr. 3
Re-coating time	20 °C	h	min. 24 max. 48
Drying, 23 °C, 50 % humidity, 150 µm wet film	touch-dry	h	appr. 1
	open to traffic	h	appr. 6-8
Curing	20 °C	days	7
Application temperatures		°C	min. 10 max. 30
Application relative humidity		%	min 40 max. 85
Colour	pure white ca.RAL 9010 (other colors on request)		
Appearance	gloss		
Packaging (standard)	unit (bucket/canister)	20,00 kg (Comp. A 16,67 kg / Comp. B 3,33 kg)	
	unit (bucket/canister)	6,00 kg (Comp. A 5,00 kg / Comp. B 1,00 kg)	
Consumption	100-200 g/m <sup>2</sup> per application step		
Cleaning	with suitable cleaner		
R and S closes	see latest MSDS		
Taber-Abrasion test	ASTM D 4060	mg	appr. 37
Pendel hardness (König)	DIN EN ISO 1522	s	appr. 100
VOC-Content (incl. H <sub>2</sub> O)	<b>gloss</b> Comp. A 27 g/l Comp. B 0 g/l		
* These data are given best to our knowledge and cannot be used as specification			

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All aforementioned indications, especially proposals on applying and using this product are based on our knowledge and experience of normal cases and are not binding. Due to different materials, undergrounds and varying working conditions a guarantee of treatment quality can not be given. Disregarding the legal relationship, no liability results from either these information or any consultation, unless we make ourselves guilty of gross negligence or malice aforethought. In this case, it is necessary that the applicant has informed us in written and in due time on all information and skills, which are relevant for a promising evaluation. Third parties' rights have to be safeguarded. Further, our respective Conditions of Sale and Delivery are valid as well as our current Technical Data Sheet, which should be requested.

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