

Technical Data Sheet  
Number :  
Effective Date : 01/02/2020

# POLYFLOOR® PUEP-216-2K SB

## Polyfloor PU Epoxy Solvent Based



### PRODUCT DESCRIPTION

**POLYFLOOR PUEP-216-2K SB** is a flexible two component solvent based PU hybrid epoxy flooring system which has good abrasion resistance, excellent adhesion to concrete and good resistance against fungus, resistant to wide range of acid and alkali chemicals type, and semi gloss finish. Suitable for application on concrete suspended slab.

### FIELDS OF APPLICATION

- Car park area
- Dry production area
- Warehouses
- Workshop, showroom
- Office and highrise building

### ADVANTAGES

- Flexible and crack bridging
- High build & excellent self levelling (low in visco)
- Dust-proof and easy to clean
- Durable, good abrasion resistant and excellent adhesion
- Chemical resistant
- Hygienic, fungus and biological resistant
- Smooth, seamless and semi gloss finish

### TECHNICAL DATA

Type	: Two component solvent based PU hybrid
Color	: As shown in the color card
Finish	: Semi gloss
Solid by Volume (mixture)	: $\pm 93\%$
Specific Gravity (mixture)	: $\pm 1.70 \text{ gr/cc}$
Material Consumption	: $1.80 \text{ kg-set/m}^2$ for $\pm 1000 \text{ microns DFT}$
Drying Time (30°C)	:
- Surface Dry	: 2 hours
- Hard Dry	: 20 hours
- Full Cure	: 7 days
- Open Traffic	: 24 hours for light traffic and 7 days for vehicular traffic
Packaging	: 5 and 20 kg-set
Storage Stability	: One year in cool and dry storage and in original not opened box.
Mixing Ratio by Weight	: Comp A : B = 7 : 1 w/w
Pot Life	: 30 minutes in 30°C
Application Method	: Squeegee, epoxy roll and spike roll
Re-coating Interval (30°C)	: 12-16 hours until 7 days
Application Temperature	: 25 - 35 °C
Humidity Maximum	: 80 % RH
Provide adequate ventilation during application and drying	



## TEST PERFORMANCE DATA

Item	: Result	Standard Test
Compressive Strength	: > 60 N/mm <sup>2</sup>	BS-6319 Part 2
Bonding Strength	: > 2.5 N/mm <sup>2</sup> concrete failure	ASTM D-4541
Abrasion Resistant	: 0.022 gr loss	ASTM D-4060
Flexural Strength	: > 30 N/mm <sup>2</sup>	ASTM C-580
Impact Resistant	: 50 cm (2 kg)	ASTM D-2794
Hardness	: 72 osc in 7 days	ASTM D-4336 (Shore D)
Scratch Resistant	: 90 x	Crock meter
Gloss Level	: 75 - 80 %	Gloss meter
Water Resistant	: Excellent	
Solvent Resistant	: Excellent*	
Chemical Resistant	: Excellent*	
Pot Life	: 30 minutes (30°C)	
Temperature Resistant	: 0 - 70°C	
Flow Ability	: Excellent	

\* consult with Propan for solvent and chemical list

## INSTRUCTION FOR USE

## Surface Preparation

Compressive strength of concrete floor not less than 25 N/mm<sup>2</sup> in more than 28 days. Moisture content should be less than 5% and the surface temperature must be at least 3°C above current dew temperature. Remove oil contaminants using industrial grade detergent or degreasing compound as chemical cleaning and mechanical cleaning.

## Application Procedure

Function	Product and Tools	Coating amount	Curing Time
Patching	: Polyfloor mortar PFM-222-3K SF. Mix well and apply with metal trowel	22 kg-set /m <sup>2</sup> /cm	± 8 hrs (30°C)
Primer Coat	: Epoxy primer PFP-241-2K SB. Mix well using mixer ± 2 minutes and apply with rubber squeegee and then epoxy roll. Mixing ratio component A : B = 4 : 1 by weight	0.20 kg-set/m <sup>2</sup>	± 12 hrs (30°C)
Top Coat	: Mix component A Polyfloor PU epoxy PUEP-216-2K SB in low speed mixer. Pour component B to component A while stirring and mix well ± 2 minutes. Mixing ratio component A : B = 7 : 1 by weight	1.80 kg-set/m <sup>2</sup> /mm	

Top coat can be used in 24 hours for foot traffic and 7 days for vehicular traffic

## RECOMMENDED COATING SYSTEM

Preceding coats	: Epoxy primer Polyfloor PFP-251-2K SF : Epoxy primer Polyfloor PFP-241-2K SB : Epoxy primer Polyfloor PFP-231-2K WB
Subsequent coats	: PU Floor PUAS-620-2K WB series : Polyfloor epoxy PFT-213-2K SF clear : Propan UV Floor series



## CLEANING

POLYFLOOR PU EPOXY PUEP-216-2K SB should be removed from tools and equipments with PROPAN Epoxy Thinner. Hardened material can be removed mechanically only.

## SAFETY PRECAUTIONS

POLYFLOOR PU EPOXY PUEP-216-2K SB is flammable but does not contain heavy metals in its materials such as lead. Avoid Contact with skin and eyes. Do not inhale. Wear suitable protective equipment such as goggles, dust mask and gloves. Do not smoke near this product and use only explosion proof equipment.

### First Aid

Skin contact : Rinse under plenty of water immediately. Seek medical advice if irritation persists.  
Eye contact : Wash off under plenty of water immediately. Seek medical advice if irritation persists  
Inhalation : Take the person out to get more fresh air, loosen collar and avoid exertion. Keep him rested and help using breathing apparatus.

