

## PUAS-620-2K WB



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### POLYFLOOR PU Top Seal Water Based

### PRODUCT DESCRIPTION

**POLYFLOOR PU PUAS-620-2K WB** is two components water based polyurethane coating. It has excellent hardness, abrasion resistance and good hot-tire mark resistance. PUAS-620 is suitable for top coat or top seal in interior and exterior uses. Can be applied on floor and wall. Available on clear and color.

### FIELDS OF APPLICATION

- Car park/ car garage
- Supermarket, shopping store
- Warehouse and production area
- Restaurant and natural stone floor
- Food and beverages factory
- Pharmaceutical factory

### ADVANTAGE

- Food grade (US FDA 21 CFR 175.300)
- Non-yellowing and non-chalking
- Excellent abrasive and scratch resistant
- Satin finish and easy to clean
- Chemical resistant
- Excellent adhesion to concrete and epoxy
- Interior and exterior application

### PRODUCT SPECIFICATION

Type	: Two components water-base polyurethane coating	
	<b>Component A</b>	<b>Component B</b>
	<b>PUAS-620-2K WB</b>	<b>HARDENER PUAS-620</b>
Color	: Tinting available	Clear liquid
Specific gravity	: $1.15 \pm 0.04$ gr/ml	$0.16 \pm 0.04$ gr/ml
Finish	: Satin	
Solid by volume (mixture)	: $44 \pm 1$ %	
Flash point	: n.a.	
Material consumption	: 0.25 Kg set/m <sup>2</sup> for 100 micron DFT	
	Recommended application 100-150 micron DFT	
Drying time (@ 30°C)	:	
1. Surface dry	: 2 hours	
2. Hard dry	: 20 hours	
3. Open traffic	: 24 hours for light traffic and 7 days for heavy traffic	
Packaging	: 5 and 20 Kg-set	
Storage stability	: Two years in cool and dry storage (above freezing point) and in original unopened box.	
Mixing ratio by weight	: Comp A : B = 4 : 1 w/w	
Pot life (@30°C)	: 60 minutes	
Application method	: Rubber squeegee, and short-hair roll	
Substrate	: Concrete	
Application viscosity	: 500-1000 cps	
Re-coating interval	: 24 hours until 7 days	
Application condition	: T = 25-35 °C, RH = maximum 80%	
Provide adequate ventilation during application and drying		

## FILM PROPERTIES

Item	Result	Standard Test
Bonding Strength	: > 2.5 N/mm <sup>2</sup> , concrete failure	ASTM D-4541
Abrasion Resistant	: 40 mg loss per 1000 cycles (500 g load using CS17 wheels)	ASTM D-4060
Impact Resistant	: 40 cm, 1 Kg load	ASTM D-2794
Mohs Hardness	: 3	ASTM D-2240
Gloss level	: 20-30%	ASTM D-523
Tyre Mark Resistant	: Good	ASTM WK14355
Scratch Resistance	: 95% gloss retention (after 100 cycles)	ASTM D-6279

### Household and Chemical Resistance (24 hours exposure)

• Water	: Good
• Alcohol	: Good
• Red Wine	: Good
• Vinegar	: Good
• Liquid Soap	: Good
• Turmeric	: Not Good
• HNO <sub>3</sub> (65%)	: Not Resistance

} Spotting method  
based on  
ISO 2812-4

*\*all properties tested using panel that has been cured for at least 7 days @ 30°C*

## OTHERS

Shelf life	: 24 months.
Storage and handling	: Store at maximum temperature 35°C. If store under elevated temperature will shorten the shelf life. Avoid from heat and direct sunlight

## SURFACE PREPARATION

Make sure that compressive strength of floor structure as good as project design requirement. Surface must be structurally sound, clean, and free from loose particles, excessive oil, grease, and other contaminants. Clean excessive oil, grease and wax using scrubbing method by industrial grade detergent or degreasing compound followed by vacuum cleaning to remove all particle dirt.

## APPLICATION INFORMATION

1. Mix **PUAS-620-2K SB** with **HARDENER PUAS-620** at mixing ratio A:B = 4:1 (w/w), using electrical mixer or appropriate method.
2. Add water gradually into the mixture (10-15 % water), to achieve desired viscosity.
3. Apply the mixture on top of the primer/body coat, using squeegee followed by short-hair roller.
4. Leave it dry for at least 24 hours, before the next process.
5. Good ventilation and air circulation in working area is suggested.

## SIMPLIFIED RECOMMENDED COATING SYSTEM

No.	APPLICATION STEP and PRODUCT CODE	MIXING	RECOMMENDED COATING AMOUNT	CURING @ 30 °C.
Substrate: Concrete				
	Grinding 150# followed by cleaning			
1	Primer			
	PFP-241-2K SB	4	200 gr/m <sup>2</sup> for ~150 mic DFT	3-5 hours
	HARDENER PFP-241	1		
<i>*primer can use different series such as PFP-261-2K SB, PFP-251-2K SF, Consult our representative to select the right system for your needs.</i>				
2	Top Coat			
	PUAS-620-2K WB Series	4	150 gr/m <sup>2</sup> for ~60 mic DFT	20-24 hours
	HARDENER PUAS-620	1		
3	Top Coat			
	PUAS-620-2K WB Series	4	100 gr/m <sup>2</sup> for ~50 mic DFT	20-24 hours
	HARDENER PUAS-620	1		

## SAFETY PRECAUTION

This product does not contain formaldehyde or heavy metals. Avoid contact with the skin and eyes. Wear suitable protective clothing such as goggles, masks, and gloves.

For more information, please refer to our safety data sheet.

### FIRST AID:

- Eye contact : Rinse immediately with plenty of water for at least 15 minutes; seek medical advice.
- Skin contact : Wash with soap and water. If irritation occurs, seek medical advice.
- Ingestion : Provide symptomatic treatment and seek medical advice.
- Inhalation : Remove person to fresh air. Keep patient rested and give artificial respiration.

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