

## PFT-293-2K AS SF



No. TD : P135  
Revision : 01  
Effective Date : 07/12/2022



### TOP COAT FOR ELECTROSTATIC DISCHARGE

### PRODUCT DESCRIPTION

**POLYFLOOR EPOXY PFT-293-2K AS SF** is two components solvent-free amine cure epoxy self smoothing floor topping containing special additives designed to discharge static electricity in the ESD Protective Area (EPA).

### FIELDS OF APPLICATION

- Server room
- Flammable and explosive production area
- Electrical devices production area
- Surgery room

### PRODUCT FEATURES

- Comply with European Standard (EN 61340-5)
- Comply with ASTM F-150
- Smooth, seamless, gloss finish
- Dust-proof and easy to clean

### PRODUCT SPECIFICATION

Type	: Two components solvent-free amine cure epoxy	
	<b>Component A</b>	<b>Component B</b>
	<b>PFT-293-2K AS SF SERIES</b>	<b>HARDENER PFT-293</b>
Color	: As shown in the color card	Clear yellowish liquid
Specific gravity	: $1.76 \pm 0.04$ gr/ml	$0.98 \pm 0.02$ gr/ml
Solid by volume (mixture)	: $98 \pm 1$ %	
Flash point	: n.a.	
Material consumption	: 1.6 Kg set/m <sup>2</sup> for 1000 micron DFT	
	Recommended application 930-2000 micron DFT	
Drying time (@ 30°C)	:	
1. Surface dry	: 12 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	: One year 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)	: 30 minutes	
Application method	: Rubber Squeegee, rubber roll and spike roll	
Substrate	: Concrete	
Application viscosity	: Ready for Use	
Re-coating interval	: 20 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
Compressive Strength	: $65 \pm 3 \text{ N/mm}^2$	ASTM C-579
Bonding Strength	: $> 2.5 \text{ N/mm}^2$ , concrete failure	ASTM D-4541
Abrasion Resistant	: 23 mg loss per 1000 cycles (500 g load using CS17 wheels)	ASTM D-4060
Impact Resistant	: 60 cm, 1 Kg load	ASTM D-2794
Hardness	: 70 Shore D	ASTM D-2240
Gloss level	: 85-95%	ASTM D-523
Electrical Resistance: - Surface to ground	: $10^6 - 10^9 \text{ Ohm}$	ASTM F-150

*\*all properties tested using panel that has been cured for at least 28 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 **PFT-293-2K AS SF** with **HARDENER PFT-293** at mixing ratio A:B = 4:1 (w/w), using electrical mixer or appropriate method.
2. Apply the mixture on top of the primer coat.
3. Leave it dry for at least 20 hours.
4. 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 80# followed by cleaning			
1	Primer Coat			
	PFP-241-2K SB	4	200 gr/m <sup>2</sup> for 150 mic DFT	2 hours
	HARDENER PFP-241	1		
2	Copper Tape			
	COPPER TAPE 1 inch		3 x 3 m grid	
3	ESD Primer			
	PFP-291-2K WB	3	150 gr/m <sup>2</sup> for 70 mic DFT	20 hours
	HARDENER PFP-291	1		

<b>4</b>	<b>ESD Top Coat</b>			
	<b>PFT-293-2K AS SF</b>	<b>4</b>	1500 gr/m <sup>2</sup> for 930 mic DFT	20 hours
	<b>HARDENER PFT-293</b>	<b>1</b>		

## 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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