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No. TD : P-321 Revision : 02 Effective Date : 11/01/2021

POLYFLOOR PFT-293-2K AS SF is two component solvent free self-smoothing flooring system with anti-static property. It has smooth and gloss surface finish. It exhibits resistivity about  $10^{\circ}\Omega$  -  $10^{\circ}\Omega$ . This product is suitable for interior industrial use where dissipative surface is required, such as:



- 1. Electrical and panel control room
- 2. Power plant
- 3. Computer and electronic industry
- 4. Military facility area
- 5. Hospital (operation room)
- 6. Oil and gas facilities

### **PRODUCT SPECIFICATION**

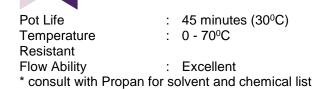
Type Two components self-smoothing epoxy solvent free Color As shown in the color card Finish High gloss Solid by Volume (mixture) ±96% Specific Gravity (mixture) 5 ±1.64 gr/cc Material Consumption 1.50 kg-set/m<sup>2</sup> for ±1000 microns DFT • Drying Time (30°C) Surface Dry : 2 hours Hard Dry : 20 hours Full Cure : 7 days Open Traffic 24 hours for foot 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 = 4 : 1 w/w Pot Life 45 minutes in 30°C Application Method epoxy roll and spike roller : Re-coating Interval (30°C) : 12-16 hours until 7 days Application Temperature 10 - 35 °C : Humidity Maximum 80 % RH :

# TEST PERFORMANCE DATA

Item	:	Result	Standard Test
Resistivity	:	>1 x 10 <sup>6</sup> Ω <1 x 10 <sup>9</sup> Ω	ASTM F 150
Compressive Strength	:	> 50 N/mm²	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	:	> 25 N/mm²	ASTM C-580
Tensile Strength	:	38 Mpa	ASTM D-412
Hardness	:	82 osc	ASTM D-4336 (Shore D)
Gloss Level	:	85 - 95 %	Gloss meter
Water Resistant	:	Excellent	Karsten test
Solvent Resistant	:	Excellent*	
Chemical Resistant	:	Excellent*	

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## SURFACE PREPARATION

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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.

Function	Product and Tools	Coating amount	Curing Time
Patching :	Polyfloor mortar PFM-222-3K SF. Mix well comp. A and B using mixer $\pm 1$ minutes. Pour the comp. C while stirring, slowly $\pm 1$ minutes and apply with metal trowel. Mixing ratio comp. A : B : C = 3 : 2 : 35 by weight	22 kg-set /m²/cm	± 8 hrs (30ºC)
Primer Coat :	Epoxy primer PFP-251-2K SF. Mix well using mixer $\pm 2$ minutes and apply with rubber squegee and then epoxy roll. Mixing ratio comp. A : B = 2 : 1 by weight	0.20 kg-set/m <sup>2</sup>	± 12 hrs (30ºC)
Cooper tape : instalation	When the primer coat and patching of cracks treatment having repaired apply the 3M self- adhesive copper bands 9.5 mm. The copper band or copper tape is then lead out to the floor / wall boundary and connected to perpendicular copper band stripes, to form 9 m <sup>2</sup> (3 x 3 m) grids. The distance beetween the outside of cooper tape to the wall maximum 1m The various copper bands of the grid system shall be soldered to earthing electrodes at prescribed points for each room	-	-
Conductive : primer	Apply conductive primer Polyfloor PFP-291-2K AS WB. Firstly stir comp. A slowly before mixing. Mix one set Polyfloor PFP-291-2K AS WB (comp. A : $B = 3 : 1$ by weight) for at least 2 minutes until the mix homogeneous. Poured the mixed material onto the substrate and spread the mixed material using a squeegee and epoxy roller	0.20 kg-set/m <sup>2</sup>	± 12 hrs (30ºC)

Function	Product and Tools	Coating amount	
Top Coat :	Top coat Polyfloor anti static PFT-293-2K AS SF. Firstly stir comp. A slowly before mixing. Mix well using mixer $\pm$ 2 minutes comp. A and comp.B with mixing ratio 4 : 1 by weight and apply with rubber squegee and then epoxy roll Top coat can be used in 24 hours for foot traffic and 7 days for vehicular traffic	1.50 kg- set/m2 /mm	

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#### **RECOMMENDED COATING SYSTEM**

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Preceding coats: Polyfloor PFP-291-2K AS WBSubsequent coats: Polyfloor anti static PFT-293-2K AS SF

#### CLEANING

POLYFLOOR PFT-293-2K AS SF should be removed from tools and equipments with Propan Epoxy Thinner. Hardened material can be removed mechanically only.

#### SAFETY PRECAUTIONS

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POLYFLOOR PFT-293-2K AS SF 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.