

# PFT-293-2K AS SF

No. TD : P-321  
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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  $10^6\Omega$  -  $10^9\Omega$ . 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)  | : $\pm 96\%$   |
| Specific Gravity (mixture) | : $\pm 1.64$ gr/cc   |
| Material Consumption       | : 1.50 kg-set/m <sup>2</sup> for $\pm 1000$ 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          | : $> 1 \times 10^6 \Omega$<br>$< 1 \times 10^9 \Omega$ | ASTM F 150            |
| Compressive Strength | : $> 50$ 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    | : $> 25$ N/mm <sup>2</sup>                             | 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*   |                       |

Pot Life : 45 minutes (30°C)  
 Temperature : 0 - 70°C  
 Resistant  
 Flow Ability : Excellent  
 \* consult with Propan for solvent and chemical list

## 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.

| Function                  | Product and Tools  | Coating amount                | Curing Time     |
|---------------------------|--|-------------------------------|-----------------|
| Patching :                | Polyfloor mortar PFM-222-3K SF. Mix well comp. A and B using mixer ± 1 minutes. Pour the comp. C while stirring, slowly ± 1 minutes and apply with metal trowel. Mixing ratio comp. A : B : C = 3 : 2 : 35 by weight   | 22 kg-set /m <sup>2</sup> /cm | ± 8 hrs (30°C)  |
| Primer Coat :             | Epoxy primer PFP-251-2K SF. Mix well using mixer ± 2 minutes and apply with rubber squeegee and then epoxy roll. Mixing ratio comp. A : B = 2 : 1 by weight  | 0.20 kg-set/m <sup>2</sup>    | ± 12 hrs (30°C) |
| 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 (30°C) |

| 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 ± 2 minutes comp. A and comp.B with mixing ratio 4 : 1 by weight and apply with rubber squeegee and then epoxy roll<br><br>Top coat can be used in 24 hours for foot traffic and 7 days for vehicular traffic | 1.50 kg-set/m <sup>2</sup> /mm |  |

#### **RECOMMENDED COATING SYSTEM**

Preceding coats : Polyfloor PFP-291-2K AS WB  
Subsequent 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**

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.