

Technical Data Sheet
Number : P-180 01
Effective Date : 01/02/2020

POLYFLOOR[®] PFC-225-3K WB



Polyfloor Epoxy Cement Water Barrier

PRODUCT DESCRIPTION

POLYFLOOR EPOXY CEMENT PFC-225-3K WB is a three component cementitious epoxy modified self smoothing flooring system with a matt surface finish. It has excellent temporary moisture barrier (2mm thickness), excellent adhesion to damp and green concrete.

FIELDS OF APPLICATION

For self-smoothing of 2mm thickness underlayment temporary moisture barrier for epoxy flooring system.

ADVANTAGES

- Excellent adhesion to damp and green concrete
- Excellent resistance to water
- Self-smoothing / good flow ability
- Can be applied with epoxy resin after 24 hours

TECHNICAL DATA

Type	:	Three component cementitious epoxy water based flooring system.
Color	:	White greyish
Finish	:	Matt
Solid by Volume (mixture)	:	86%
Specific Gravity (mixture)	:	2.20 gr/cc
Material Consumption	:	4 kg-set/m ² for 2 mm DFT
Drying Time (30°C)	:	
- Surface Dry	:	3 hours
- Hard Dry	:	24 hours
- Full Cure	:	7 days
- Open Traffic	:	24 hours for light traffic and 7 days for vehicular traffic
Packaging	:	23 kg-set
Storage Stability	:	One year in cool and dry storage and in original not opened box.
Mixing Ratio by Weight	:	Comp A : B : C = 2 : 2 : 19 w/w
Pot Life (30°C)	:	30 minutes
Application Method	:	Metal trowel
Re-coating Interval (30°C)	:	24 hours
Application Temperature	:	10 - 40 °C
Humidity Maximum	:	80 % RH

Provide adequate ventilation during application and drying

TEST PERFORMANCE DATA

Item	: Result	Standard Test
Compressive strength	: > 40 N/mm ²	BS-6319 Part 2
Bonding strength	: > 2.5 N/mm ² concrete failure	ASTM D-4541
Flexural strength	: > 12 N/mm ²	ASTM C-580
Temperature resistant	: 0 - 70°C	



INSTRUCTION FOR USE

Surface Preparation

Compressive strength of concrete floor not less than 25 N/mm² 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
Sealer	: Use a low speed electrical stirrer/mixer to stir the material slowly before apply. Pour WBS-224-1K WB onto to the substrate and spread using epoxy roll or rubber squeegee. Allow curing time 5 - 15 minutes before applying next step.	0.20 kg-set /m ²	± 5 min (30°C)
Water Barrier	: Polyfloor cement PFC-225-3K WB. Mix well component A and B using mixer ± 1 minutes. Pour the component C while stirring, mix slowly ± 1 minutes and apply with metal trowel. Mixing ratio component A : B : C = 2 : 2 : 19 by weight.	4 kg-set/m ² /2mm	± 24 hrs (30°C)

RECOMMENDED COATING SYSTEM

Preceding coats : Water Based Sealer WBS-224-1K WB
Subsequent coats : All epoxy series

CLEANING

POLYFLOOR CEMENT PFC-225-3K WB should be removed from tools and equipments with clean water. Hardened material can be removed mechanically only.

SAFETY PRECAUTIONS

POLYFLOOR CEMENT PFC-225-3K WB 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.

