

PFM-222-3K SF

POLYFLOOR

Solvent Free Epoxy Mortar

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PRODUCT DESCRIPTION PFM-222-3K SF is a three components solvent free amine cured epoxy mortar. It provides good abrasion resistance, and suitable use as a heavy duty underlayment or a finish floor as well for high traffic area.

FIELDS OF APPLICATION

- As a solvent free epoxy mortar for curving in hospital, laboratory, pharmacy, ground water tank, kitchen, food and beverages, area where hygiene is a must.
- Concrete patching and repair in warehouses, production area, hangar, etc.
- Mortar screed

ADVANTAGE

- Excellent adhesion to concrete
- High impact resistant
- High compressive strength ($\sim 60 \pm \text{N/mm}^2$)

PRODUCT SPECIFICATION

Type	Three components solvent free amine cured epoxyu mortar		
	Component A	Component B	Component C
	PFM-222-3K SF	HARDENER PFM-222	Filler PFM-222
Appearance	Clear to hazy	Brownish liquid	Silica sand
Specific gravity	1.16 ± 0.04 gr/ml	0.98 ± 0.02 gr/ml	1.53 ± 0.04 gr/ml
Solid by volume (mixture)	98 ± 1 %		
Flash point	256°C		
Drying time(@30°C)			
1. Surface dry	3 hours		
2. Hard dry	5 hours		
3. Open traffic	16 hours for light traffic and 3 days for heavy traffic		
Packaging	40 Kg-set		
Storage stability	Three years in dry storage and in original unopened box.		
Mixing ratio by weight	Comp A : B : C = 3 : 2 : 35 w/w		
Pot life	120 minutes (@30°C)		
Application method	Trowel		
Substrate	Concrete, stone		
Application viscosity	Ready for Use		
Coating amount (wet)	5 kg-set/m² for 3 mm thickness		
Re-coating interval	3 – 5 hours until 7 days		
Application condition	T = 10-35 °C, RH = maximum 80%		
Provide adequate ventilation during application and drying			

TEST PERFORMANCE DATA

Item	Result	Standard Test
Compressive Strength	: ~ 60 N/mm ²	ASTM-C 579
Bonding Strength	: > 2.5 N/mm ² (concrete failure)	ASTM D-4541
Abrasion Resistant	: 40 mg loss 1000 cycles CS 17	ASTM D-4060
Impact Resistant	: 50 cm (1 kg)	ASTM D-2794
Hardness	: > 75 (Shore D)	ASTM D-2240
Temperature Resistant	: 0 – 70°C	

**all properties tested using panel that has been cured for at least 28 days @ 30°C*

OTHERS

Shelf life	: 36 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 with industrial grade detergent or degreasing compound followed by vacuum cleaning to remove all particle dirt. Moisture content of the substrate should be less than 4%. Higher moisture content will need additional treatment before applying this product. Consult our representative to select the right system for your needs.

APPLICATION INFORMATION

1. Mix **PFM-222-3K SF** with **HARDENER PFM-222** followed by **FILLER PFM-222** at mixing ratio **A: B: C = 3 :2 :35 (w/w)**
2. Apply the mixture on the substrate using trowel
3. Leave it dry for at least 3 hours before the next coat.
4. Good ventilation in working area is suggested.

SIMPLIFIED RECOMMENDED COATING SYSTEM

No.	APPLICATION STEP and PRODUCT CODE	MIXING	RECOMMENDED COATING AMOUNT	CURING
Substrate: Concrete				
	Grinding 80#			
1	Patching cracks and holes			
	PFM-222 3K SF	3	5000 gr/m ² for 3 mm thickness	3-5 hours @ 30°
	Hardener PFM-222	2		
	Filler PFM-222	35		
2	Primer			
	PFP-241-2K SB	2	150 gr/m ²	12-16 hours @ 30°C
	HARDENER PFP-241	1		
*primer can use different series such as PFP-221-2K SF, PFP-231-2K WB, Consult our representative to select the right system for your needs.				

3	Top Coat			
	PFT-253 series	4	900 gr/m ² for 500 DFT	12-16 hours @ 30°C
	HARDENER PFT-253	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.

DISCLAIMER

This document contains information issued based on the best and latest of Propan's knowledge in accordance to laboratory testing and practical application experience. The end user must test the product's suitability for their specific application and purpose. Propan shall not be liable for defects where the application of the Product has not been made fully in accordance with the recommendations and requirements. This document is subjected to change without further notice. Please consult Propan for any specific guidance on the suitability of this product for their needs or for any specific application practices.