

Technical Data Sheet
Number :
Effective Date : 01/01/2020



PFP-211-2K PUTTY SF



Polyfloor Epoxy Putty

PRODUCT DESCRIPTION

POLYFLOOR PFP-211-2K PUTTY SF is a two component solvent free amine cured epoxy primer formulated as a high build epoxy primer for concrete floor. Good adhesion of this primer for porous substrate with properly selected top coat forms a general protective coating system for concrete floor. it can be applied as a filler for the hairline cracks / small concrete damage.

FIELDS OF APPLICATION

This product excellent if used for primer coat in epoxy floor repainting. Also it can be applied as epoxy filler for concrete patching repair with mixed with talc or quartz sand for big holes.

ADVANTAGE

- Excellent bonding strength
- Easy to apply
- Low odor, solvent free system

TECHNICAL DATA

Type	: Two component solvent less amine cured epoxy primer
Color	: Grey
Finish	: Matt
Solid by Volume (mixture)	: $\pm 96\%$
Specific Gravity (mixture)	: $\pm 1.50 \text{ gr/cc}$
Material Consumption	: $0.15 - 0.2 \text{ kg-set/m}^2$ (depend on porosity of substrate condition)
Flash Point	: $\pm 99^\circ\text{C}$
Drying Time	:
- Surface Dry	: 3 hours (30°C)
- Hard Dry	: 8 hours (30°C)
- Full Cure	: 7 days (30°C)
Bonding Strength	: $>2.5\text{N/mm}^2$ concrete failure (by ASTM D-4541)
Packaging	: 5 and 20kg-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	: 30 minutes in 30°C
Application Method	: Metal trowel, rubber squeegee
Re-coating Interval (30°C)	: 12 - 16 hours until 7 days
Application Temperature	: $10 - 35^\circ\text{C}$
Humidity Maximum	: 80 % RH
Provide adequate ventilation during application and drying	

INSTRUCTION FOR USE

Surface Preparation

Compressive strength of concrete floor not less than 25 N/mm^2 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

Skin Contact : Use a low speed electrical mixer to stir comp. A slowly before mixing. Mix one set POLYFLOOR PFP-211-2K PUTTY SF (with mixing ratio comp.A : B = 4 : 1 by weight) until mixture is homogeneous at least for 2 minutes. Poured mixed material approx 0.15 – 0.20 kg-set/m² onto to the substrate and spread mixture using metal trowel or rubber squeegee. Allow curing time 12 - 16 hours (overnight) before applying next step.

As an epoxy filler for concrete patching repair or big holes, can be mixed with talc or quartz sand. Polyfloor putty : talc or quartz sand is 1 : 3-4 by weight. Let it dry 8 -12 hours for next application step.

RECOMMENDED COATING SYSTEM

Preceding coats : POLYFLOOR series, MULTIPOX series

Subsequent coats : POLYFLOOR EPOXY Series

: MULTIPOX Series

: EPOGREEN Series

CLEANING

POLYFLOOR PFP-211-2K PUTTY SF should be removed from tools and equipments with PROPAN Epoxy Thinner immediately after use. Hardened material can only be removed mechanically.

SAFETY PRECAUTIONS

POLYFLOOR PFP-211-2K PUTTY SF does not contain any material with heavy metals such as lead. Avoid contact with the skin and eyes. Wear suitable protective clothing such as overalls, goggles, dust masks and gloves. Use barrier cream. This product is flammable. Do not smoke. Use only explosion proof equipment. Do not breathe vapor or spray.

First Aid

Skin Contact : Wash off thoroughly with plenty of water immediately. If irritation occurs, seek medical advice.

Eye Contact : Rinse immediately with plenty of clean water. Seek medical advice.

Inhalation : Move person to fresh air, loosen collar and avoid exertion. Keep patient rested and give artificial respiration.



PFP-241-2K SB

POLYFLOOR[®]

Solvent Based Multipurpose Primer

No. TD : P-190
Revision : 01
Effective Date : 11/11/2020

PRODUCT DESCRIPTION

PFP-241-2K SB is a two component solvent based epoxy primer. Excellent adhesion of this primer to substrate with properly selected top coat forms a general protective coating system for concrete floor.

FIELDS OF APPLICATION

As a primer coat for epoxy flooring system.

ADVANTAGE

- Low viscosity
- Fast cure
- Excellent bonding strength
- Easy to apply



PRODUCT SPECIFICATION

Type	Two component solvent based epoxy primer	
	Component A	Component B
	PFP-241-2K SB	HARDENER PFP-241
Color	Milky	Brownish liquid
Specific gravity	1.25 ± 0.04 gr/ml	0.98 ± 0.02 gr/ml
Solid by volume (mixture)	76 ± 1 %	
Flash point	25°C	
Drying time		
1. Surface dry	3 hours (@30°C)	
2. Hard dry	5 hours (@30°C)	
3. Full strength	7 days (@30°C)	
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 minutes (@30°C)	
Application method	Squeegee and epoxy roll	
Substrate	Concrete	
Application viscosity	Ready for Use	
Coating amount (wet)	0.20 kg-set/m²	
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		

FILM PROPERTIES

Adhesion on concrete (ASTM D 4541) : 2.5 N/mm² (fail on substrate)

OTHERS

Shelf life	: 12 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

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 then followed by mechanical grinding and cleaning.

APPLICATION INFORMATION

1. Mix **PFP-241-2K SB** with **HARDENER PFP-241** at mixing ratio A:B = 4:1 (w/w).
2. Apply the mixture on the substrate.
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	8-12 hours @ 30°
	Hardener PFM-22	2		
	Filler PFM-222	35		
	Grinding 100#			
2	Primer			
	PFP-241-2K SB	4	200 gr/m²	3-5 hours @ 30°C
	HARDENER PFP-241	1		
3	Top Coat			
	PFT-253 series	4	800 gr/m ²	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.

PFP-251-2K SF

POLYFLOOR[®]

Solvent Free Multipurpose Primer

No. TD : P-182
Revision : 01
Effective Date : 11/11/2020

PRODUCT DESCRIPTION

PFP-251-2K SF is a two component solvent free epoxy primer. Excellent adhesion and penetration of this primer to substrate with properly selected top coat forms a general protective coating system for concrete floor.

FIELDS OF APPLICATION

As a solvent free primer coat for flooring system.



ADVANTAGE

- Low viscosity
- Excellent penetration to substrate
- Superior bonding strength
- Easy to apply

PRODUCT SPECIFICATION

Type	: Two component solvent base epoxy primer	
	Component A	Component B
	PFP-251-2K SF	HARDENER PFP-251
Color	: Clear to hazy	Brownish liquid
Specific gravity	: 1.16 ± 0.04 gr/ml	0.98 ± 0.02 gr/ml
Solid by volume (mixture)	: 98 ± 1 %	
Flash point	: 256°C	
Drying time	:	
1. Surface dry	: 12 hours (@30°C)	
2. Hard dry	: 16 hours (@30°C)	
3. Full strength	: 7 days (@30°C)	
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 = 2 : 1 w/w	
Pot life	: 120 minutes (@30°C)	
Application method	: Squeegee and epoxy roll	
Substrate	: Concrete, stone	
Application viscosity	: Ready for Use	
Coating amount (wet)	: 0.15-0.30 kg-set/m ² . 0.30 kg-set/m ² for PU-concrete system	
Re-coating interval	: 12 – 16 hours until 7 days	
Application condition	: T = 10-35 °C, RH = maximum 80%	
Provide adequate ventilation during application and drying		

FILM PROPERTIES

Adhesion on concrete (ASTM D 4541) : 2.5 N/mm² (fail on substrate)

OTHERS

- Shelf life : 12 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

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 then followed by mechanical grinding and cleaning.

APPLICATION INFORMATION

1. Mix **PFP-251-2K SF** with **HARDENER PFP-251** at mixing ratio A:B = 2:1 (w/w).
2. Apply the mixture on the substrate.
3. Leave it dry for at least 12 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	8-12 hours @ 30°
	Hardener PFM-22	2		
	Filler PFM-222	35		
	Grinding 100#			
2	Primer			
	PFP-251-2K SF	2	150 gr/m ²	12-16 hours @ 30°C
	HARDENER PFP-251	1		
3	Top Coat			
	PFT-253 series	4	800 gr/m ²	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.

PFP-261-2K SB

POLYFLOOR[®]

Polyfloor Primer Wall

No. TD : P-187 01
Revision : 01
Effective Date : 16/03/2021

PRODUCT DESCRIPTION

PFP-261-2K SB is a two component polyamide cured epoxy, formulated as primer coat and adhesion promoter for epoxy wall and floor coating system.

FIELDS OF APPLICATION

As a primer coat for porous substrates with properly selected top coat forms a general protective coating system for concrete floor and wall.

ADVANTAGE

- Excellent bonding strength
- Fast and easy to apply
- Good mechanical strength
- Good penetration for concrete, gypsum board, asbestos cement, GRC panel, etc.



PRODUCT SPECIFICATION

Type	: Two component polyamide cured epoxy primer	Component A PFP-261-2K SB	Component B HARDENER PFP-261
Color	: White liquid		Brownish liquid
Specific gravity	: 1.25 ± 0.04 gr/ml		0.90 ± 0.02 gr/ml
Solid by volume (mixture)	: 73 ± 1 %		
Flash point	: 25°C		
Drying time	:		
1. Surface dry	: 30 minutes (@30°C)		
2. Hard dry	: 3 hours (@30°C)		
3. Full strength	: 7 days (@30°C)		
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 = 9 : 1 w/w		
Pot life	: 30 minutes (@30°C)		
Application method	: Brush, roller		
Substrate	: Concrete, GRC board, gypsum, asbestos cement, etc.		
Application viscosity	: Ready for Use		
Coating amount (wet)	: 0.15 - 0.20 kg-set/m ²		
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			

FILM PROPERTIES

Adhesion on gypsum (ASTM D 4541) : 1.5 N/mm² (fail on substrate)

OTHERS

Shelf life	: 12 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

Concrete should be fully cured in more than 28 days. Moisture content should be less than 5%. Substrate must be free from oil, dirt any loosen particles. Remove oil contaminants using industrial grade detergent or degreasing compound as chemical cleaning then followed by mechanical grinding and cleaning.

APPLICATION INFORMATION

1. Mix **PFP-261-2K SB** with **HARDENER PFP-261** at mixing ratio A:B = 9:1 (w/w).
2. Apply the mixture on the substrate.
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 wall				
	Sanding 80#			
1	Primer			
	PFP-261-2K SB	9	150-200 gr/m ²	3-5 hours @ 30°C
	HARDENER PFP-261	1		
2	Top Coat			
	Multipox MX-94 series	4	200 gr/m ²	7-16 hours @ 30°C
	HARDENER MX-94	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.

PFP-281-2K FL SB

POLYFLOOR[®]

Polyfloor Flexible Primer

No. TD : P-336
Revision : 00
Effective Date : 16/03/2021

PRODUCT DESCRIPTION

PFP-281-2K FL SB is a two component solvent based epoxy primer consisting of high quality epoxy resin with excellent adhesion on smooth surface such as ceramic tiles, terrazzo and similar materials.

FIELDS OF APPLICATION

As a primer coat for smooth surface floor such as ceramic tile, terrazzo and similar materials.

ADVANTAGE

- Excellent bonding strength
- Easy to apply

PRODUCT SPECIFICATION

Type	Two component solvent base epoxy primer	
	Component A	Component B
	PFP-281-2K FL SB	HARDENER PFP-281
Color	Light-Grey liquid	Brownish liquid
Specific gravity	1.5 ± 0.04 gr/ml	0.98 ± 0.02 gr/ml
Solid by volume (mixture)	94 ± 1 %	
Flash point	25°C	
Drying time		
1. Surface dry	3 hours (@30°C)	
2. Hard dry	12 hours (@30°C)	
3. Full strength	7 days (@30°C)	
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 minutes (@30°C)	
Application method	Brush, roll	
Substrate	Ceramic, terrazzo	
Application viscosity	Ready for Use	
Coating amount (wet)	0.15`-0.20 kg-set/m²	
Re-coating interval	12– 16 hours until 7 days	
Application condition	T = 10-35 °C, RH = maximum 80%	
Provide adequate ventilation during application and drying		

FILM PROPERTIES

Adhesion on ceramic (ASTM D 4541) : 3.0 N/mm² (fail on substrate)

OTHERS

Shelf life : 12 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

Moisture content of the substrate should be less than 5%. Substrate must be free from oil, dirt any loosen particles. Remove oil contaminants using industrial grade detergent or degreasing compound as chemical cleaning.

APPLICATION INFORMATION

1. Mix **PFP-281-2K FL SB** with **HARDENER PFP-281** at mixing ratio A:B = 4:1 (w/w).
2. Apply the mixture on the substrate.
3. Leave it dry for at least 12 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: Ceramic				
	Cleaning and drying			
1	Primer			
	PFP-281-2K FL SB	4	200 gr/m ²	12-16 hours @ 30°C
	HARDENER PFP-281	1		
2	Top Coat			
	PFT-253 series	4	800 gr/m ²	7-16 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.

PFP-291-2K AS WB

No. TD : P-183
 Revision : 01
 Effective Date : 12/10/2020

POLYFLOOR PFP-291-2K AS WB is two component water based primer consisting of high quality epoxy resin with excellent adhesion on epoxy primer coating. 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 component water based amine cured epoxy primer
Color	:	Black
Finish	:	Semi gloss
Solid by Volume (mixture)	:	± 62%
Specific Gravity (mixture)	:	± 1.10 gr/cc
Material Consumption	:	0.20 kg-set/m ²
Flash Point	:	135°C
Drying time (30°C)	:	
- Surface Dry	:	2 hours
- Hard Dry	:	10 hours
- Full Cure	:	7 days
Bonding Strength	:	>2.5 N/mm ² concrete failure (by ASTM D-4541)
Packaging	:	5 and 20kg-set
Storage Stability	:	One year in cool and dry storage and in original not opened box.
Mixing Ratio by Weight	:	Comp A : B = 3 : 1 w/w
Pot life (30°C)	:	45 minutes
Application method	:	Roll, rubber squeegee
Re-coating interval (30°C)	:	12 - 16 hours until 7 days
Application temperature	:	10 - 40°C
Humidity maximum	:	80 % RH

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.

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 ² /cm	± 8 hrs (30°C)

Primer Coat	: Epoxy primer PFP-251-2K SF. Mix well using mixer \pm 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 ²	\pm 12 hrs (30°C)
Cooper tape installation	: 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 ² (3 x 3 m) grids. The distance between 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 ²	\pm 12 hrs (30°C)

RECOMMENDED COATING SYSTEM

Preceding coats	: Polyfloor Primer PFP-231-2K WB : Polyfloor Primer PFP-251-2K SF
Subsequent coats	: Polyfloor PFT-293-2K AS SF

CLEANING

PFP-291-2K AS WB should be removed from tools and equipments with Propan Epoxy Thinner immediately after use. Hardened material can only be removed mechanically.

SAFETY PRECAUTION

PFP-291-2K AS WB does not contain any material with heavy metals such as lead. Avoid contact with the skin and eyes. Wear suitable protective clothing such as overalls, goggles, dust masks and gloves. Use barrier cream. This product is flammable. Do not smoke. Use only explosion proof equipment. Do not breathe vapor or spray.

First Aid

Skin Contact	: Wash off thoroughly with plenty of water immediately. If irritation occurs, seek medical advice.
Eye Contact	: Rinse immediately with plenty of clean water. Seek medical advice.
Inhalation	: Move person to get more fresh air, loosen collar and avoid exertion. Keep patient rested and give artificial respiration.