

PPG FLOORING SELF-LEVELING EPOXY

DESCRIPTION

PPG Flooring Self-Leveling Epoxy is a 100% solids, high-build epoxy floor coating designed to provide seamless application and durability for concrete protection. Combine with decorative flakes, quartz, or non-slip additives to create a non-skid surface.

PRINCIPAL CHARACTERISTICS

- Solvent free
- Easy to apply, self-leveling
- High gloss
- Excellent adhesion and durability
- Provides long-lasting protection to concrete
- Impact resistant
- Low Maintenance
- TYPICAL USES:
- Food and beverage processing facilities
- Electronic equipment plants
- Industrial and commercial warehouses
- Laboratory floors
- Pharmaceutical plants
- Power plants
- Waste water and sewage treatment plants

COLOR AND GLOSS LEVEL

- Deck Gray, Haze Gray and White ready-mix colors, Clear - may be tinted with PPG Flooring Epoxy Tint Pack to Light Gray, Sandstone, Tile Red, and Black
- High gloss

Notes:

- White and Light Gray may be applied thicker to achieve proper hide depending on surface profile and texture of concrete
- See PPG Flooring Epoxy Tint Pack product data sheet for tinting details

BASIC DATA AT 72° F (22° C)

Data for mixed product	
Number of components	Two
Volume solids	100%
VOC (Supplied)	EPA Method 24: 0.0 lb/US gal (0.0 g/l)
Recommended dry film thickness	10.0 - 30.0 mils (250 - 750 µm) depending on system
Theoretical spreading rate	160 ft ² /US gal for 10.0 mils (3.9 m ² /l for 250 µm) 80 ft ² /US gal for 20.0 mils (1.9 m ² /l for 500 µm) 53 ft ² /US gal for 30.0 mils (1.3 m ² /l for 750 µm)



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Data for mixed product

Shelf life	Base: at least 24 months when stored cool and dry Hardener: at least 24 months when stored cool and dry
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Notes:

- Shelf life is for unopened containers
- See ADDITIONAL DATA - Recoating windows
- See ADDITIONAL DATA - Drying time

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Concrete

- Coating performance is proportional to the degree of surface preparation
- NEW / BARE CONCRETE - Refer to SSPC-SP13 / NACE No. 6 or ICRI No. 310.2, CSP 2-3 for detailed information regarding surface preparation of concrete. In general, concrete must have sufficient profile to achieve satisfactory adhesion of primer and topcoat. Concrete must be in sound condition and free of all coatings, curing compounds, oil, and other contaminants. New concrete must cure a minimum of 28 days prior to application of any coatings and be below industry standard for moisture vapor content and relative humidity.
- Concrete can be abrasive blasted (ASTM D4259) or mechanically abraded to achieve a profile of 60-grit sandpaper or coarser. Moisture vapor transmission should be 3 lbs. or less over a 1000 sq. ft. area during a 24 hour period, measured and confirmed through a calcium chloride test per ASTM F1869. Concrete should have a minimum tensile strength of 300 psi verified by pull-off adhesion test per ASTM D4541. Slabs on grade that do not have an appropriate moisture barrier installed may be subject to seasonal moisture migration than can result in coating disbondment. Should concrete not meet moisture vapor transmission or tensile strength requirements, contact your local sales representative for guidance. Consult the following ASTM methods: ASTM D4263 - plastic sheet method for checking moisture in concrete; ASTM D4258 - standard practice for cleaning concrete; ASTM 4259 standard practice for abrading concrete.
- PREVIOUSLY COATED CONCRETE - Old coatings and concrete must be in sound condition. Surfaces must be clean and dry and free of all contaminants such as dust, dirt, grease, and oil. Old coatings must be uniformly abraded to achieve satisfactory adhesion. Apply a test patch to the abraded surface and allow to cure a minimum of one week before testing adhesion. If adhesion is poor, or if the old coatings are peeling, chipping, or are otherwise in poor condition, remove the coatings down to bare concrete and prepare the bare concrete as shown above.

Atmospheric exposure conditions

- Ambient temperatures should be between 55°F (13°C) and 95°F (35°C)
- Material temperature should be between 55°F (13°C) and 95°F (35°C)
- Maximum 85% relative humidity during application and curing

Substrate temperature

- Substrate temperature during application should be between 55°F (13°C) and 95°F (35°C)
- Substrate temperature during application should be at least 5°F (3°C) above the dew point



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SYSTEM SPECIFICATION

- DECORATIVE – PPG Flooring Concrete Epoxy Primer / PPG Flooring Self-Leveling Epoxy (10 mils DFT) / Decorative Flakes (Optional)
- MILD – PPG Flooring Concrete Epoxy Primer / PPG Flooring Self-Leveling Epoxy (20 mils DFT)
- MODERATE – PPG Flooring Concrete Epoxy Primer / PPG Flooring Self-Leveling Epoxy (30 mils DFT)

INSTRUCTIONS FOR USE

- APPLICATION EQUIPMENT - The following is a guide. Adjustments in application equipment or technique may be necessary to accommodate varying field conditions.
- SQUEEGEE: Flat or notched rubber squeegee (depending on DFT required) with EPDM rubber blade, available from manufacturers such as Midwest Rake Co.
- ROLLERS: 3/8 inch lint-free roller with phenolic core for back-rolling, and 7/16 inch sharp-tipped spiked roller for air release and leveling, available from manufacturers such as Midwest Rake Co.
- MIXING: PPG Flooring Self-Leveling Epoxy is a two-component coating and proper mixing is required. Stir base thoroughly to disperse pigment before mixing with hardener. Add 2 parts base to 1 part hardener by volume for 3 minutes; mix slowly until uniformly blended. Do not mix at high speed, as air entrainment will occur. PPG Flooring Self-Leveling Epoxy is ready for use immediately after mixing base and hardener; no induction time is required. Do not mix more material than can be applied within the potlife (see potlife data). Material which has begun to set cannot be satisfactorily used and must be discarded. Surface temperature must be at least 5°F (3°C) above the dew point to avoid condensation.
- APPLICATION PROCEDURE:
 - PPG Flooring Self-Leveling Epoxy is packaged in proper proportions which must be mixed together before use. Mix full units only.
 - Mix thoroughly before application
 - Pour a substantial portion of mixed material onto the floor in a long ribbon approximately 12 to 18 inches wide. Do not scrape or drain containers.
 - Using either a flat or notched rubber squeegee, spread the mixed material to a uniform thickness.
 - Wet film thickness can be adjusted by varying the angle of the squeegee to the floor and by varying the amount of pressure applied.
 - As material is being spread with the squeegee, an applicator wearing spiked shoes should immediately back-roll and cross-roll the material with a clean, lint-free 3/8" roller. Finish by uniformly tipping off the surface with the roller in one direction.
 - Do not back roll material after it begins to tack up.
 - After 15 minutes set up time, the material should be rolled with a spike roller to aid air release and to improve appearance. Do not spike roll after 30 minutes.

Mixing ratio by volume: base to hardener 2:1

Induction time

None

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Pot life

45 minutes at 72°F (22°C)

Note: See ADDITIONAL DATA – Pot life

Cleaning solvent

AMERCOAT 12 CLEANER or use Acetone

ADDITIONAL DATA

Recoating window at 10 mils wet				
Overcoating with...	Interval	55°F (13°C)	72°F (22°C)	95°F (35°C)
Itself and recommended topcoats	Minimum	20 hours	18 hours	16 hours
	Maximum	24 hours	24 hours	24 hours

Note: If recoating time exceeds maximum recoat times indicated, then surface abrasion is required to ensure proper adhesion.

Drying time at 10 mils		
Substrate temperature	Dry to touch	Full cure
55°F (13°C)	16 hours - 24 hours	7 days
72°F (22°C)	8 hours - 12 hours	7 days
95°F (35°C)	4 hours - 8 hours	7 days

Drying time at 10 mils		
Substrate temperature	Dry to walk on	Resistant to vehicular service
55°F (13°C)	36 hours	4 days
72°F (22°C)	24 hours	3 days
95°F (35°C)	18 hours	60 hours

Pot life	
Mixed product temperature	Pot life
55°F (13°C)	55 minutes
72°F (22°C)	45 minutes
95°F (35°C)	20 minutes

DISCLAIMER

- For industrial or professional use only



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SAFETY PRECAUTIONS

- See Safety Data Sheet and product label for complete safety and precaution requirements

REFERENCES

• CONVERSION TABLES	INFORMATION SHEET	1410
• EXPLANATION TO PRODUCT DATA SHEETS	INFORMATION SHEET	1411
• SAFETY INDICATIONS	INFORMATION SHEET	1430
• SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD – TOXIC HAZARD	INFORMATION SHEET	1431

WARRANTY

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Product code	Description
FLR600-0	Clear Base
FLR600-3	White Base
FLR600-210	Deck Gray Base
FLR600-20	Haze gray base
FLR600-B	Hardener

Notes:

- Clear Base can be tinted to Light Gray, Sandstone, Tile Red, and Black using PPG Flooring Epoxy Tint Packs.
- Available in 3-gallon kit: 2-gallons of base and 1-gallon of hardener.

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