PPG Protective & Marine Coatings

PPG Anti-Slip Safety Flooring Systems SFT 650

Low VOC, Fast Dry, Heavy Duty Epoxy Anti-slip

Product Data/ Application Instruction

PPG Anti-Slip Safety Flooring Systems SFT 650 is a two-component, general purpose, vehicular grade, epoxy anti-slip floor and deck coating engineered for slippery areas and used to resist heavy rolling and pedestrian traffic.

SFT 650 is suitable for marine and industrial environments while being easy to apply. It adheres to concrete, metal, and wood surfaces.

SFT 650 is fire retardant when dry. It has excellent chemical resistance to oil, gasoline, acids, caustics, hydraulic fluids and most solvents.

Typical Uses

- Heavy industrial areas
  - Heavy rolling traffic
  - Heavy impact requirement
- Transit systems
- Entrances
- Stadiums
- Loading areas or docks
- Garages and warehouses

Products

99-65002	Black
99-65003	Tile Red
99-65015	Gray
99-65060	Safety Yellow
99-65033	Cure

Physical Data

Colors	Black, Tile Red, Gray, Safety Yellow	
Finish	Flat	
Anti-slip Profile	Medium to High	
Package size	1 and 5 gallons	
Components	2	
Curing mechanism	Chemical reaction between components	
Volume solids	70% (calculated)	
Coats	1	
DFT per coat	mils 20 to 25	microns 500 to 625
Theoretical coverage	ft^2/gal	m^2/L
30 mils (375 microns) rolled	40	1.0
25 mils (250 microns) troweled	50	1.2
25 mils (250 microns) sprayed	60	1.5
VOC (EPA 24)	lb/gal 2.07	g/L 247
Flash point (SETA)	°F 81	°C 27
Coefficient of Friction	Dry	Wet
	1.05	1.05

Surface Preparation

Coating performance is proportional to the degree of surface preparation. Refer to the Product Data/Application Instructions for the specific primer being used for surface preparation specifications. Concrete and primed concrete surfaces must be clean and dry and free of contaminants such as dust, dirt, grease, or oil. It is important that a suitable moisture barrier is in place for slabs on-grade. If a moisture barrier is not in place, seasonal variations in ground moisture can cause excessive hydrostatic pressure regardless of results measured prior to coating application.

New/Bare Concrete — Refer to SSPC-SP 13/NACE No. 6 surface preparation of concrete 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. Concrete can be abrasive blasted (ASTM D4259) or mechanically abraded to achieve a profile equal to 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 (ASTM F1869). Concrete should have a minimum surface tensile strength of 300 PSI verified by a pull-off adhesion test. Should concrete not meet moisture vapor transmission or tensile strength requirements, contact your local PPG representative for guidance. Consult the following ASTM methods: ASTM-4263 – plastic sheet method for checking moisture in concrete; ASTM 4258 standard practice for cleaning concrete; ASTM 4259 standard practice for abrading concrete; ASTM 4260 standard practice for etching concrete.

Previously Painted 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, or 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.

Wood and metal surfaces — contact your PMC specialist for a recommendation.

Application Data

Applied over	Concrete, metal and wood surfaces
Primers*	Self Priming over concrete and wood
Concrete	Amerlock 2, Amerlock Sealer - add Amerlock 2VOC, Pitt-Guard
Metal Surfaces	Amerlock 2 or Amerlock 2VOC, Pitt-Guard

** When using an epoxy primer, the SFT 650 should be applied within 72 hours of application of the epoxy.*

Surface Preparation	ASTM D4260 or 4259; SSPC-SP10
Method	Roller, trowel, or spray
Mixing ratio (by volume)	18 to1 (mix full kit)

Environmental conditions

Temperature	ºF	ºC
surface	50 to 130	20 to 54

Surface temperatures must be at least 5ºF (3ºC) above dew point to prevent condensation. Relative humidity must not exceed 85%.

Pot Life	4 hours at 70ºF

Drying time (hours, @25 mils DFT, 50% RH)

	ºF/ºC	
	70/21	35/2
Foot traffic	12	36-48
Heavy traffic	48	96

Clean-up Solvent	Amercoat 12 Cleaner

Instructions for Use

Mixing should be done with a mechanical mixer such as a pneumatic drill motor with a Jiffy mixing blade. Pre-mix the base component for several minutes making sure all material is lifted off the bottom and uniformly mixed. Pour entire contents of hardener can into base material. Mix thoroughly as above for 3-5 minutes until contents are a uniform color.

ROLLER

The best anti-slip characteristics are obtained when the product is rolled. Do not thin. Use a smooth napless solvent resistant roller.

1. Pour a "strip" of SFT 650 on the surface approximately 2' long and 6" wide.
2. Roll in one direction only by pulling material toward you in slow straight strokes.

Use a modest amount of downward pressure. It is important that the rolled profile expose the maximum amount of non-slip aggregate. If aggregate is not properly exposed, the coating may become slippery when wet.

Do not over-roll or press down too heavily. Make sure that coating is even without any thick puddles. If applied too heavily the coating may not cure properly.

Drying time will vary with temperature and humidity. Protect exterior applications from rain for at least 24 hours. For full cure, protect application from extended exposure to water, oil and chemicals for 5 to 7 days.

SPRAY

Sprayed applications will result in a uniform appearance with good non-slip characteristics. SFT 650 may be sprayed with spray equipment using a 1/4 inch opening spray tip. To adjust spraying material may be thinned with 1 to 3 pints of Amercoat 65 or Xylol per 5 gallons of material. This will increase the V.O.C. 20 grams per liter for each pint of solvent. Caution must be exercised not to excessively thin material or exceed local VOC regulations when thinning. Also excessive thinning could result in grit not remaining properly in suspension. Various sprayers are available for grit containing coatings such as mastic type spray equipment. Consult with your equipment manufacturer. An example set-up is as follows:

A 5-gallon bottom outlet pressure tank equipped with a double regulator and an air driven agitator, and 1" I.D. outlet pipe. 25 feet of 3/8" air hose with 3/8" female connectors at each end. 25 feet of 3/4" material hose with 3/4" female connectors at each end. A Binks Model 7E2 spray gun equipped with 1/4" (#45) fluid nozzle and a 1/4" internal air cap or a Binks Model 52-2012 (4 foot) pole gun equipped with the same fluid nozzle and air nozzle. Minimum air supply required is 20 CFM at 90 lbs. pressure. Recommended pressure is 15-20 psi on material and 20-25 psi on atomization. Always keep atomization air pressure higher than pot pressure. Keep agitator running slowly. Good coverage and film thickness will be obtained working at 18" or 24" distance from surface. Overlap strokes about 50%. Make sure of wet application. Very little abrasive rebound will be noticed at 15 psi; however, it will be more noticeable at higher pressures.

TROWEL

SFT 650 may be applied with a smooth trowel such as a flexible plasterer's finishing trowel. Use a trowel about 4 by 12 inches.

Pour a "strip" of SFT 650 on the surface approximately 2' long and 6" wide.

Hold the trowel at a 45° angle to the surface and spread with a full motion. Reverse the angle of the trowel for an opposite stroke. Pull the material toward you. To cover corners, etc. pull straight strokes using material on the trowel.

Surface Maintenance

SFT 650 should be kept clean to ensure that its non-slip safety aspect is maintained. Clean with an all-purpose cleaner/degreaser. Scrub the anti-slip surface with a thick bristled brush or floor machine. Rinse with clean water and let dry. SFT 650 is extremely durable; however, frequently traveled areas may require occasional touch up.

Shipping Data

Packaging units	1 gallon	5 gallon
Shipping weight (approx)	16 lbs	80 lbs

Shelf life when stored indoors at 40 to 100°F (4 to 38°C) 1 year from shipment date

Numerical values are subject to normal manufacturing tolerances, color and testing variances. Allow for application losses and surface irregularities. See application instructions for complete information and safety precautions.

Safety Precautions

Read each component's material safety data sheet before use. Mixed material has hazards of both components. Safety precautions must be strictly followed during storage, handling, and use. **This product is for professional use only. Not for residential use.**

Warranty

PPG warrants only its title to the products, and that the products will be set forth in the warranty statement, if any, on the products labeling or in the absence of any such warranty statement that the products will conform to PPG's applicable published specifications. PPG's sole obligation and Buyer's exclusive remedy in connection with the products shall be limited, at PPG's option, to either replacement of products not conforming to this Warranty or credit to Buyer's account in the invoiced amount of the nonconforming products. Any claim under this Warranty must be made by Buyer to PPG in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life, or one year from the delivery date, whichever is earlier. Buyer's failure to notify PPG of such nonconformance as required herein shall bar Buyer from recovery under this Warranty.

PPG makes no other warranties concerning the product. No other warranties, whether express, implied, or statutory, such as warranties of merchantability or fitness for a particular purpose, shall apply.

Any recommendation or suggestion relating to the use of the products made by PPG, whether in its technical literature, or in response to specific inquiry, or otherwise, is based on data believed to be reliable; however, the products and information are intended for use by Buyers having requisite skill and know-how in the industry, and therefore it is for Buyer to satisfy itself f the suitability of the products for its own particular use and it shall be deemed that Buyer has done so, at its sole discretion and risk. Variation in environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results.

Due to PPG's policy of continuous product improvement, the information contained in this Product Data/Application Instructions sheet is subject to change without notice. It is the Buyer's responsibility to check that this issue is current prior to using the product. For the most up-to-date Product Data/Application Instructions always refer to the PPG Protective & Marine Coatings website at www.ppgpmc.com

Limitation of Liability

PPG's liability on any claim of any kind, including claims based upon PPG's negligence or strict liability, for any loss or damage arising out of, connected with, or resulting from the use of the products, shall in no case exceed the purchase price allocable to the products, or part thereof which give rise to the claim. In no event shall PPG be liable for consequential or incidental damages.

PPG Protective & Marine Coatings
www.ppgpmc.com

One PPG Place, Pittsburgh, PA 15272 • Tel: (800) 441-9695