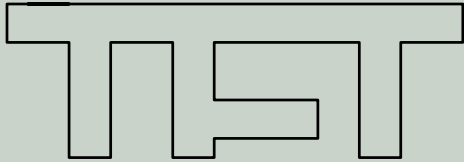


BIO-FLOR™ 182

SUPER-TOUGH, 100%
SOLIDS FLOORING



Thin Film Technology, Inc.

PRODUCT DATA SHEET

BIO-FLOR™ 182 is a solvent-free, highly adhesive flooring system designed for application over surfaces such as existing vinyl tiles and concrete. Finished thickness is typically 35 -45 mils which provides excellent wear ability in a variety of colors and textures.

BIO-FLOR™ 182 is an extremely versatile system offering a choice of several hardwearing texture aggregates or colorful vinyl chips and high performance epoxy binders. All formulations are solvent free to eliminate the odor and explosion hazards of epoxy solvents. The system can be installed adjacent to other trades without objection resulting in minimum downtime and disruption.

BIO-FLOR™ 182 has given excellent results on busy loading docks and has proved particularly effective for encapsulating old vinyl asbestos tile floors with a tougher seamless surface.

RECOMMENDED USES

LOADING DOCKS: Generally used with aluminum oxide abrasive for maximum durability and traction. Reduces sweating following sudden changes in weather from cold to hot and humid.

VINYL ASBESTOS TILE: Encapsulates after preparation by OSHA approved janitorial scrubbing. Makes an attractive and extremely tough, seamless flooring in any color.

FOOD HANDLING FACILITIES: Meets USDA PSIS Directive 11,000.4 "Approval Of Paints and Coatings Used in Official Establishments" dated 8/12/94 for floors.

TECHNICAL INFORMATION

VEHICLE TYPE	Epoxy/Aliphatic amines
PIGMENTATION	Color/Inert/mineral aggregates or vinyl color chips
COLORS	All colors including white
FINISH	High gloss, textures from glass smooth to textured non-slip
THINNER	Not normally required
CLEANER	MEK or lacquer thinner
MIXING RATIO	varies
INDUCTION TIME	Not required
POT LIFE	Approx. 15' /77°F
FLASH POINT	Over 200°F
SOLIDS BY VOLUME	100%
SPREADING RATE/GAL.....	Normally 105 – 125 sq.ft. /gallon per coat
DRY TIME, (LIGHT TRAFFIC)	12 hours @ 77°F
APPLICATION METHOD.....	Squeegee/roller, roller
FLAME RESISTANCE.....	1.0+watts/sq.cm. ASTM E648-94a (quartz system)

APPLICATION NOTES

SURFACE PREPARATION -This may be accomplished in several ways:

New Concrete: leave to cure properly for a minimum of 20 days before coating. Weak surface laitance must be removed by either acid etching or abrasive blasting. (Note: acid etching can be difficult and unreliable unless performed with particular attention to proper acid application, scrubbing, rinsing and drying.) Abrasive blasting, (recommended), may be effected by conventional open blasting or with "Blastrac"® type centrifugal equipment. The concrete surface after preparation should have the granular appearance of medium sandpaper.

Aged Concrete: best prepared by abrasive blasting. If contaminated, contact Thin Film Technology for advice.

Coated Concrete: if existing coatings are unsound they must be removed by abrasive blasting before **BIO-FLOR™ 182** application: Worn but sound coatings may be prepared by vigorous scrubbing with detergent/stripper using an aggressive janitorial scrubber. The surface should be absolutely clean and matt before coating.

Vinyl Asbestos/Vinyl Composition Tile: Prepare for coating by scrubbing with wax stripper using a janitorial scrubber. (Note: when stripping vinyl asbestos tile, (VAT), use no more aggressive pad than a green pad in accordance with OSHA directives - under no circumstances abrade the tile surface). Check the pH of the surface after stripping using pH test paper -rinse until pH is in the range 6-8.5. Vacuum, squeegee, or blow-dry the surface before coating application.

APPLICATION follows the sequence described below:

Primer, or Base Coat is applied at a spreading rate of 100 sq.ft. /gal (concrete) to 125 sq.ft. /gal (Vinyl Tile) to yield a wet film of approximately 13 mils. Application is made by pouring a mixed two gallon kit over a roughly measured 200 -250 sq.ft. area then spreading using long handled squeegees followed by final back rolling. The formulation is self -leveling and will flow out to level most surface irregularities within a few minutes.

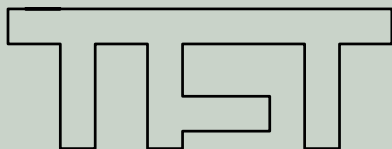
Aggregate is applied at a rate of 0.3 -0.51bs/sq.ft. either "chicken-feeding" by hand or by a mechanical aggregate spreader. The object is to "over-seed" or to apply enough aggregate to completely saturate the wet coating film leaving unabsorbed grains on the surface. Aggregate is spread within minutes of the primer coating application while it is still uncured and quite liquid. Remove the excess aggregate by brushing with a stiff yard broom when the film has hardened sufficiently -this will be after about four hours at 77°F. The surface exposed after brooming will be flat and uniform.

Glaze or Sealer application is made following the same pour/squeegee/roll method used for the primer coat at a spreading rate of about 100 sq.ft./gallon. "Stretching" the coverage to about 140 sq.ft. /gallon will result in a greater surface texture for enhanced skid resistance, conversely application of more glaze coat will result in a smoother film which may be desirable in some applications.

Note: See detailed Application Instructions for the **BIO-FLOR™ 182**/vinyl color chip flooring installation.

CURING BEFORE SERVICE: allow 12 hrs curing at 77°F before initial service, which includes rolling, but not spinning, wheeled traffic. Unlimited service is possible after about 24 hrs. at 77°F with "full cure" occurring about 3 days after the last coating application.

WE URGE YOU TO READ THE MATERIAL SAFETY DATA SHEET (MSDS) BEFORE USING AND TO CALL THIN FILM TECHNOLOGY, INC., AS NECESSARY FOR ADVICE OR INFORMATION BEFORE ANY ACTUAL OR CONTEMPLATED APPLICATION.



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SAFETY: This is a hazardous material if misused. Read and understand the Material Safety Data Sheet (MSDS) before use.
WARRANTY DISCLAIMER: The technical data given herein has been compiled for your help and guidance and is based upon our experience and knowledge. However, as we have no control over the use to which this information is put, no warranty, express or implied, is intended or given. We assume no responsibility whatsoever for coverage, performance or damages, including injuries resulting from use of this information or of products recommended herein.