

PRODUCT DATA SHEET



EnduraFinish

DESCRIPTION AND USE

EnduraFinish is a three component epoxy floor sealer and additive that exhibits excellent characteristics for abrasion resistance, chemical resistance, flexibility, weathering and UV stability.

RECOMMENDED FOR:

Recommended for auto service centers, warehouses, computer rooms, laboratories, aircraft hangers, cafeterias, exterior tanks, indoor or outdoor service and chemical exposure areas.

Architectural	Smooth	Yes
Concrete	Split-faced	No
Block	Burnished	No
	Ribbed	No
Concrete	Brick	No
	Tile	Yes
	Precast Panels	Yes
	Pavers	Not Recommended
	Cast-in-place	Yes
Fired Clay	Brick	No
	Tile	No
	Terra Cotta	Yes may need a primer
	Pavers	No
Marble, Travertine,	Polished	No
Limestone	Unpolished	No
Granite	Polished	No
	Unpolished	No
Terrazzo	Polished	No
Slate	Unpolished	No
Always test to ensure desired results. Coverage estimates depend on surface texture and porosity.		

ADVANTAGES

- **Thick to resist heavy vehicals i.e. forklifts**
- **Ideal for commercial, Industrial or residential**
- **12 hour Cure for walking traffic.**
- **Excellent resistance to wide variety of chemicals.**
 - **Excellent resistance to hot tire marks**
 - **Shelf life: 12 months from purchase date**
 - **EnduraFinish will not support flames.**

Limitations

- **For best results use a high quality 3/8" V notch rake.**
- **Slab on grade requires moisture barrier.**
- **Substrate temperature must be 5°F above dew point.**
- **All new concrete must be cured for at least 30 days.**
- **Physical properties are typical values and not specifications**
- **Colors may vary.**

TECHNICAL DATA

ACTIVE INGREDIENT: Proprietary

ACTIVE CONTENTS: >60%

FORM: Clear liquid without filler

SPECIFIC GRAVITY: 1.00 G/ml

FLASHPOINT: 185 F.

SOLIDS BY WEIGHT:

Mixed= 60% (colors); 56% (clear) (+,-2%)

SOLIDS BY VOLUME:

Mixed= 53% (colors); 53% (clear) (+,-2%)

VOLATILE ORGANIC CONTENT:

Less than 3.8 pounds per gallon

STANDARD COLORS:

White, off white, light gray, medium gray, tile red, beige, and clear

RECOMMENDED FILM THICKNESS:

15-25 mils per coat wet thickness

COVERAGE PER 3 GALLONS:

50 to 70 square square feet per 3 gallon kit

PACKAGING INFORMATION

3 gallon and 15 gallon kits 3 gal kit = 2 gallons part A (10.5#/gal- colors) or (8.75#/gal-clear) and 1 gallon part B (8.5#/gal.) (weights and volumes approximate)

MIX RATIO:

2 parts A to 1 part B by volume (2:1) to every 36 pound box of EnduraFinish Powder.

SHELF LIFE:

1 year

FINISH CHARACTERISTICS:

High gloss (>80 at 60 degrees @ Erichsen glossmeter)

ABRASION RESISTANCE:

Taber abrasor CS-17 calibrase wheel with 1000 gram total load and

500 cycles = 20.0 mg loss

IMPACT RESISTANCE:

Gardner Impact, direct & reverse = 160 in. lb. (passed)

FLEXIBILITY:

No cracks on a 1/8" mandrel

ADHESION:

360 psi @ elcometer (concrete failure, no delamination)

VISCOSITY:

Mixed = 200-400 cps (typical, most colors)

DOT CLASSIFICATIONS: Epoxy

Part A "FLAMMABLE LIQUID N.O.S., 3, UN1993, PGIII"

Part B "FLAMMABLE LIQUID N.O.S., 3, UN1993, PGIII"

HARDNESS:

Shore D = 72

PREPARATION

Protection:

Store product in an area so as to bring the material to normal room temperature before using. Continuous storage should be between 60 and 90 degree F.

Extinguish all pilot lights or open flames during application.

NOTICE:

IT IS SOLELY THE OBLIGATION OF THE APPLICATOR TO TEST SURFACE COEFFICIENT OF FRICTION (TRACTION) OF EACH FINISHED SURFACE.

Recommend testing surface with BOT-3000E available from Franchise Sourcing, LLC using the current ANSI specification. Contact Technical Support for more information.

Surface Preparation**Repairs**

All cracks, expansion joints, saw joints is recommended to be filled using 3M epoxy joint filler. Allow to cure (under 30 mins) and grind flat using either hand grinder or floor machine.

Surface preparation will vary according to the type of complete system to be applied.

Concrete: Surface must have a 30-45 grit dry grounded surface. Water grinding is highly forbidden.

For a one coat application we recommend mechanical grind dry until a suitable profile is achieved. For a complete system build higher than 10 mils dry, we recommend a course 36 grit grind. All dirt, oil, dust, foreign contaminants and laitance must be removed to assure a trouble free bond to the substrate.

Surfaces previously coating with impregnator or other hydrocarbon sealers should be tested to ensure after grinding there is no repellency of drops of water.

A test should be made to determine that the concrete is dry; this can be done by placing a moisture meter (1 test for every 100 sq. ft. of surface).

Recommend testing wet concrete with a calcium chloride test. If after 24 hours, the substrate is considered dry, then the substrate is dry enough to start coating. NOTE: It is a good method to determine if any hydrostatic pressure problems exist that may later cause disbonding.

PRODUCT MIXING

This product has a two to one mix ratio by volume wet- merely mix two gallons of Part A with a 36 pound box of EnduraFinish. Avoid high speed mixing which may introduce air into the mixture. Recommend stirring with a jiffy mixer and very low rpm hand drill.

Mix in part B using same jiffy mixer and low rpm hand drill for 3 minutes.

COVERAGE:

A standard 36 pound box of EnduraFinish powder mixed with a 3 gallon A/B epoxy kit will yeald up to 60 sq. ft. average using the required rake specified.

APPLICATION INFORMATION

Before applying the product, read "Protect" in the Preparation section and "Safety Information" under Safety information. Do not alter or blend with other materials.

Application Instructions

PRODUCT APPLICATION:

Immediately after mixing, bucket of EnduraFinish must be applied onto the floor within 3 minutes to avoid exothermic reaction causing the product to cure in the bucket. The mixed material should be poured onto concrete surface starting the furthest point from the exit. Pour solution in a ribbon or S shape pattern. Using a 3/8 notched rake, move material towards any wall and then begin to reverse the racking towards your feet. Spreading of the finish is completed when you have covered all areas of concrete. NOTE: once you have completed the section begin to immediately pour the next bucket joining the solutions at the wet line.

Once completed the entire area, using a metal porcupine roller, begin to gently roll the roller across all surfaces to further smooth out the finish and to remove any bubbles that may have developed.

Maintain temperatures within the recommended ranges during the application and curing process. Properly prime the substrate. It is best to maintain a wet edge to avoid roller marks. Direct sunlight or high temperatures may cause visible roller marking during application.

CAUTION:

Do not allow product to come in contact with glass, fabric, or metal oxidized surfaces.

RECOAT OR TOPCOATING: Multiple coats of this product are not exceptable. This is a one coat application.

However, a top protecting coat is highly recommended for protection of hot tire. We recommend using EnduraCrete 85% Gloss Urethane No Order. An alternative anti-slip top coat is TileLok ML1000 with AD050 dust additive.

Application of TileLok ML1000 using anti-slip is highly recommended for those areas prone to water i.e. shower floors at a YMCA for example.

Always remember that colder temperatures will require more cure time for the product before recoating can commence.

Before recoating or topcoating, check the coating to insure no contaminants exist. If a blush or contaminants are present on a previous coat, remove with a standard detergent cleaner. When recoating this product with subsequent coats of the urethane, it is advisable to apply the recoat before 24 hour passes. Also, it is advisable to degloss the previous coat to insure a trouble free bond using a dip pad of 200 grit dry. It is not recommended to use a diamond such as a Tru-Grit or CLEANCare grit.

Cure and Drying Time:

CURE SCHEDULE: (70°F)

pot life in bucket – 3 gallons volume	5 minutes
tack free (dry to touch).....	8-12 hours
topcoat.....	12 hours
light foot traffic.....	14-24 hours
full cure (heavy traffic).....	3-5 days

APPLICATION TEMPERATURE:

45-90 degrees F

Treated surfaces can be walked upon as soon as the surface becomes completely dry usually in 8-12 hours.

Car Traffic / hot tires 3-5 days

Cleanup

Use DeNatural Alcohol

FLOOR CLEANING MAINTENANCE:

Caution! Some cleaners may affect the color of the floor installed. Test each cleaner in a small area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with the product and process tested. Recommend PreCare diluted 1:64 with fresh water.

SAFETY INFORMATION

FLAMMABLE

May Cause Irritation

Keep Out of Reach of Children

Read Precautionary Measures Carefully

PPE: 1-0-0 B

Precautionary Measures

Read Material Safety Data Sheet for additional safety and hazard information. This product is for use only as specified. Do not use it for any other purpose.

First Aid Instructions In Case of Contact or Exposure

Eye Contact: Immediately flush exposed areas with water for at least 15 minutes, holding eyelids apart to ensure flushing of the entire eye surface. If irritation persists, get medical attention.

Skin Contact: Flush exposed area with large amounts of soap and water. If irritation persists, get medical attention.

Inhalation: Remove person to fresh air. If signs/symptoms continue, get medical attention.

Ingestion Treatment: Get medical attention immediately. Only induce vomiting at the instructions of a physician. Never give anything by mouth to an unconscious person.

Spill Or Leak Procedures

Use absorbent material to collect and obtain for disposal. Dispose of according to all local, state and federal regulations.

Containers Handling and Storage

EnduraCrete EnduraFinish should be stored in original sealed containers and protected from exposure to freezing temperatures and extreme heat. Store containers in an upright manner to prevent leakage. Keep containers out of the sun and away from children. The container must not be washed out or used for other purposes.

Since emptied containers retain product residue, follow label warnings even after container is emptied. Dispose of all empty containers according to all local, state and federal regulations.

Shelf Life

Shelf life is 12 months from the date of manufacture when the product is in a tightly sealed, unopened container.

WARRANTY

The information and recommendations made are based on our own research and the research of others and are believed to be accurate. However, no guarantee of their accuracy is made because we cannot cover every possible application of our products, nor anticipate every variation encountered in masonry surfaces, job conditions and methods used. The purchasers shall make their own tests to determine the suitability of such products for a particular purpose.

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