



SunEpoxy 54

Thin Mil Epoxy Primer & Flooring Material

PRODUCT DESCRIPTION AND USE

SunEpoxy 54 is a two component water-based epoxy with excellent adhesion and rapid cure times. Its unique chemistry provides short recoat times and good low temperature curing. This material has little odor, applies easily and adheres to damp concrete.

SunEpoxy 54 was designed for use as a fast curing primer under epoxy, acrylic, polyurethane and polyurea materials. It may also be used as a base coat in fast turnaround color chip systems. Recoat times range from 30 minutes to 90 minutes depending on film thickness, curing conditions and the type of top coat used. SunEpoxy 54 is ideally suited as a primer over properly neutralized interior acid stains where odor cannot be tolerated. SunEpoxy 54 primer with SunClear EcoClear top coat may be accomplished in one trip to the jobsite. Fewer trips to the jobsite result in reduction of labor costs.

Chemical Composition

Epoxy resin dispersion cross linked with a water-soluble amine adduct.

Colors

16 standard colors available, plus Clear.

Limitations

- Material not suitable for exterior use.

TECHNICAL DATA

Physical Properties

Mixing Ratio, by Volume.....	2-1
Solids Content (Pigmented), by Weight.....	54%
Solids Content (Pigmented), by Volume.....	46%
V.O.C.....	50 grams/liter
Pot Life (77 degrees)	4-6 hours

Cure Times (77 degrees)

Dry to Touch..... 30-60 minutes

Recoat..... 30-90 minutes

Higher temperatures, lower humidity and increased air movement will accelerate cure times.

Lower temperatures and high humidity will lengthen cure times.

Properties Performance

Gloss (60 degrees)..... 85-90

Pencil Hardness (ASTM D-3363)..... 2H

Adhesion to damp concrete (ASTM D-451)..... concrete fails before loss of bond

Impact Resistance (ASTM D-2794)..... passes 120 inch-pound direct impact

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GENERAL INFORMATION

Moisture Vapor Emissions/Alkalinity Precautions

All interior concrete floors not poured over an effective moisture vapor retarder are subject to possible moisture vapor transmission and related high levels of alkalinity that may lead to blistering and failure of the coating system. It is the coating applicator's responsibility to conduct calcium chloride and relative humidity probe testing to determine if excessive levels of vapor emissions or alkalinity are present before applying any coatings. These test kits are available from SDP. Sundeck Products USA, Inc. and its sales agents will not be responsible for coating failures due to undetected moisture vapor emissions or related high levels of alkalinity.

Surface Preparation

Concrete must be cured 30 days and be clean, structurally sound, and free of wax, loose paint or curing compounds. Surface may be damp, but standing water should be removed. Concrete should be shot blasted, acid etched or diamond ground to achieve a minimum 5 mil profile. If acid etched, use of a floor machine with a nylogrit brush is required. Etched surface must be neutralized. If surface is prepared by diamond grinding, grind thoroughly to "open up" the surface. Vacuum concrete dust and rinse surface well. Previously coated surfaces must be mechanically cleaned and abraded with steel wool or 80-100 grit sandpaper. If applied over acid stains, surface must be properly neutralized.

Mixing Instructions

Mix only that amount of material that can be used in a 4-6 hour period. In very hot weather it is advisable to mix smaller batches to ensure good flow and workability. Premix both parts A and B before combining. Combining ratio is 2 parts A to 1 part B. Proportion the amounts carefully and mix for 2 full minutes using a low speed drill, scraping the bottom and sides of the mixing vessel. When using as a primer over concrete, reduce the material 15-20% with water (1 quart water to 1 ½ gallons of mixed material) to aid penetration. Subsequent coats may be thinned as necessary to achieve a good working viscosity.

Application Recommendations

SunEpoxy 54 is normally applied 200-300 sq. ft. per gallon by brush, roller or airless spray. If trapped air in the substrate creates bubbles, continued rolling will cause them to disappear.

Handling Precautions

Use only with adequate ventilation. Appropriate cartridge-type respirator must be used during application in confined areas. Avoid contact with skin; wear protective gloves. Read Material Safety Data Sheet before using.

Slip and Fall Precautions

OSHA and the American Disabilities Act (ADA) have now set enforceable standards for slip-resistance on pedestrian surfaces. The current coefficient of friction required by ADA is .6 on level surfaces and .8 on ramps. Sundeck Products USA, Inc. recommends the use of angular slip-resistant aggregate in all coatings or flooring systems that may be exposed to wet, oily or greasy conditions. It is the contractor and end users' responsibility to provide a flooring system that meets current safety standards. Sundeck Products USA, Inc. or its sales agents will not be responsible for injury incurred in a slip and fall accident.

WARRANTY INFORMATION

Sundeck Products USA, Inc. guarantees that this product is free from manufacturing defects and complies with our published specifications. In the event that the buyer proves that the goods received do not conform to these specifications or were defectively manufactured, the buyer's remedies shall be limited to either the return of the goods and repayment of the purchase price or replacement of the defective material at the option of the seller. SUNDECK PRODUCTS USA, INC. MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, AND ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. Sundeck Products USA, Inc. shall not be liable for damages caused by application of its products over concrete with excessive moisture vapor transmission or alkalinity. Sundeck Products USA, Inc. shall not be liable for any injury incurred in a slip and fall accident. Manufacturer or seller shall not be liable for prospective profits or consequential damages resulting from the use of this product.

