



SunEpoxy Flex 300

Flexible Epoxy Floor, Crack & Joint Treatment Material

PRODUCT DESCRIPTION AND USE

SunEpoxy Crack Treatment is a medium viscosity, flexible epoxy system. It has excellent elongation, hardness and impact resistance. The material cures blush-free and forms a tenacious bond to damp concrete and properly prepared metal. It can be purchased in a thickened paste version for easy joint and crack filling. A special hardener is available where cold weather cure down to 40 degrees or accelerated room temperature cure is required.

SunEpoxy was developed for industrial joint and crack repair. Its combination of resilience and physical strength allows it to absorb the impact of heavy loads and steel wheeled traffic. When used as a coating system, it is especially well suited for applications where surface movement, vibrations or thermal cycling may defeat the protection of a rigid material. Typical applications of this type would include wood decks, suspended concrete slabs and exterior aggregate-filled flooring. It has been used successfully as a coating material for aluminum and on steel ship decks.

Chemical Composition

Internally flexibilized Bisphenol A epoxy resin cross linked with a cycloaliphatic amine curing agent.

Colors

Pewter and clear only.

Limitations

Do not use under 45° temperatures

TECHNICAL DATA

Physical Properties

Mixing Ratio, by Volume.....	2-1
Solids Content, by Weight.....	100%
Solids Content, by Volume.....	100%
Pot Life (77 degrees).....	1 qt=45 min.
Cure Times (77 degrees)	
Dry to Touch.....	12 hours
Recoat.....	12 hours
Light Traffic.....	24 hours
Full Cure.....	7 days

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

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Performance Properties

Tensile Strength, psi (ASTM D-638)	1,100
Hardness, Shore D (ASTM D-2240)	57
Ultimate Elongation, % (ASTM D-638)	60
Ultimate Compressive Strength (ASTM D-695)	25,000
Bond Strength to Damp Concrete (ACI 503.4-2.3.2.2)	Concrete fails before bond loss
Tensile Shear Strength to Steel (ASTM D-1002)	347 psi

GENERAL INFORMATION

Surface Preparation

Concrete must be cured 30 days and be clean, structurally sound and free of wax, loose paint or curing compounds. Concrete should be sand blasted, shot blasted or acid etched to achieve a minimum 5 mil profile. If acid etched, machine scrubbing is required. Carefully follow the guidelines listed in the Sundeck Products Inc Surface Preparation Manual. Surface may be damp, but standing water must be removed. Joints and cracks should be thoroughly cleaned by routing and all dust removed. Metal must be clean, dry and profiled by abrasive blasting.

Mixing Instructions

Pot life of regular cure material is 45 minutes at 77 degrees. Pot life of fast cure material is 15 minutes. Work times are shortened by higher temperatures. Pouring mixed material on floor immediately after mixing will extend work life. Combining ratio is 2 parts A to 1 part B. If using pigmented material, stir part A well, bringing settled pigments up from bottom of container before adding 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. If using the paste material, remember that mixing is more difficult. Incomplete homogenization will result in improper cure.

Application Recommendations

SunEpoxy can be applied by brush, roller, notched trowel or airless spray. SunEpoxy Flex Paste is usually applied with a flexible putty knife. For detailed instructions on industrial joint repair, see Sundeck Products Inc Application Manual.

Handling Precautions

Do not breathe vapors. Use appropriate respirator with green band cartridge to protect against methyl amine vapors. 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 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 Inc or its sales agents will not be responsible for injury incurred in a slip and fall accident.

WARRANTY INFORMATION

Sundeck Products 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 INC MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, AND ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. Sundeck Products Inc shall not be liable for damages caused by application of its products over concrete with excessive moisture vapor transmission or alkalinity. Sundeck Products 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.

