EPOXY 200

PRODUCT DESCRIPTION AND USE

Epoxy 200 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.

Epoxy 200 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. Epoxy 200 is ideally suited as a primer over properly neutralized interior acid stains where odor cannot be tolerated. Epoxy 200 primer with Polyurethane 100 or Polyurethane 501 top coats 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 crosslinked with a water-soluble amine adduct.

Colors
16 standard colors available, plus clear.

Limitations
- Clear 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.

Arizona Polymer Flooring . 7731 N. 68th Avenue . Glendale, AZ 85303 . Ph: 623.435.2277 OR 1.800.562.4921 . Fx: 623.435.8585 . www.apfepoxy.com

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

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 APF. Arizona Polymer Flooring 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 shotblasted, 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 with ammonia and water or APF Super Base Neutralizer and water.** Carefully follow the guidelines listed in the Arizona Polymer Flooring Surface Preparation Manual. 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 80-100 grit sandpaper or sanding screen. If applied over acid stains, surface must be properly neutralized with APF Super Base Neutralizer or ammonia.

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 applied without thinning.

Application Recommendations

Epoxy 200 is normally applied 200-300 sq. ft. per gallon by brush, roller or airless sprayer. 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. Arizona Polymer Flooring 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. Arizona Polymer Flooring or its sales agents will not be responsible for injury incurred in a slip and fall accident.