



Epoxy 200

Data Sheet

Part # E200, E200-CO

DESCRIPTION: Concrete Solutions® Epoxy 200 is a two-component, 100% solids, low viscosity, modified Bisphenol A and modified polyaminoamide adduct liquid epoxy resin and hardener with excellent adhesion, flexibility, impact and chemical resistance. Epoxy 200 is available in two versions according to the temperature conditions. Like most of Concrete Solutions epoxies, it cures faster in warmer temperatures. It will also bond to dry, damp or wet concrete. Because of its superior bonding abilities, it has excellent resistance to moisture vapor from below a concrete substrate. For the best resistance to below the surface moisture problems, first apply Concrete Solutions Moisture Guard, wait 24 hours, rinse the surface and then apply Epoxy 200. See the Moisture Guard Technical Data Sheet.

TYPICAL USES: Floor coatings, marine coatings, maintenance coatings. Epoxy 200 makes an excellent primer before applying Concrete Solutions Color Flake System or any epoxy or urethane flooring application. It is also used as a primer for the Tuff-Grit, Color Quartz and Metal Fusion systems and can be used as a moisture preventative primer prior to applying polymer concrete applications. When used as a moisture preventative primer under polymer concrete coatings, it is necessary to broadcast Tuff-Grit granules or Monterey sand to complete refusal into the wet Epoxy 200, so the epoxy does not show through. When dry, the loose sand can be swept and blown off or vacuumed before applying polymer concrete coating.

FEATURES & BENEFITS:

- Excellent chemical resistance
- Low viscosity
- Nice gloss appearance
- Cures in the presence of moisture and humidity
- FDA sanctioned (CFR 175.300)
- Excellent adhesion

CHEMICAL PROPERTIES:

		Result
Viscosity, cps		525 – 675
Solids by Volume/Weight		100%
Volatile Organic Compounds		0 lbs/gal
Mix Ratio, parts per volume		2A : 1B
Pot Life, minutes		15 – 30
Recoat, max		12 – 24 hrs
Dry to Touch @ 70°F (21°C)		12 hrs
Walk on Time (light foot traffic)		24 hrs
Return to Service Time (vehicle traffic)		3 days
Full Cure		7 days
Coverage Rate per Gallon		250 – 400 sqft (6.1 – 9.8 sm/l)
Recommended Application Temperature	Version #1	41° – 59°F (5° – 15°C)
	Version #2	50° – 77°F (10° – 25°C)
Odor		low
Flash Point, closed cup		340°F (170°C)
Color, gardner		1 max
Color		clear
Shelf Life - unopened containers		12 months

MOISTURE VAPOR TESTING: All concrete floors not poured over a proper moisture barrier, are subject to possible moisture vapor transmission or hydrostatic pressure problems which can cause a coating system to blister or fail. Before applying a coating system over a concrete floor which is on-grade or below grade, the customer should be informed of this potential problem and given the option to have a qualified moisture testing company perform calcium chloride test to give the proper recommendations. Rhino Linings Corporation does not warranty against moisture problem failures.

SURFACE PREPARATION: The surface to be sealed or coated should be thoroughly clean; free of any contaminants such as oil, grease or incompatible coating materials. Shotblasting or power scrubbing with detergent, acid washing, neutralizing and pressure washing are common surface preparation methods.

MIXING INSTRUCTIONS: The mixing ratio for Epoxy 200 is 2 parts A (resin) to 1 part B (hardener). Mix thoroughly for 3 minutes using a drill motor and mixing paddle or for small quantities (1 ½ gal./ 5.7 liters) a stir stick can be used.

CONCRETE SOLUTIONS® EPOXY 200 (continued):

Scrape the sides and bottom of the container while mixing. After mixing, allow a 3 minute induction period then mix again for approximately 15 seconds. Immediately pour the entire bucket in a thin row on the floor and begin spreading. If it sits in the bucket too long, it may set up prematurely. Mix only the amount of material that can be used in a 15 – 20 minute time period.

APPLICATION INSTRUCTIONS: Spread Epoxy 200 thin using a special Metal Edge Squeegee (available from Rhino Linings Corp. or many Concrete Solutions distributors) followed by a 1/4" nap paint roller to even out any squeegee/trowel marks or uneven areas. Compatible epoxies, urethanes, polyaspartics, etc. should be applied within 12 – 24 hours from the Epoxy 200 application. Epoxy 200 cures faster in warmer temperatures.

NOT RECOMMENDED FOR: Do not apply to concrete less than 28 days old.

SUBSTRATES: Concrete

COLOR OPTIONS: Clear and 5 Standard Colors: dark gray, medium gray, light gray, adobe tan, mojave sand

HOW SUPPLIED: Epoxy 200 is packaged in 1.5 gallon and 3 gallon kits.

SLIP/FALL PRECAUTIONS: Concrete Solutions recommends using slip resistant granules in all outdoor applications where the epoxies and urethanes will be used as a topcoat sealer and on indoor applications that may be exposed to water, oil or other spills that may cause a slippery environment. Aluminum oxide granules #80 grit or courser may be broadcast into the prime coat to achieve the amount of slip resistance desired. It is the end user's responsibility to determine the suitability of a coating for their particular application. Concrete Solutions or its sales agents will not be responsible for injury incurred in a slip/fall accident.

SAFETY PRECAUTIONS: Health Considerations: Consult the Rhino Linings® Safety Data Sheets (SDS)

Chemical systems require the use of proper safety equipment and procedures. Please follow the Rhino Linings® product SDS and Safety Manual for detailed information and handling guidelines.

For Your Protection: The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions made concerning the products and their uses, applications, storage and handling are only the opinion of Rhino Linings Corporation. Users should conduct their own tests to determine the suitability of these products for their own particular purposes and of the storage and handling methods herein suggested. The toxicity and risk characteristics of products made by Rhino Linings Corporation will necessarily differ from the toxicity and risk characteristics developed when such products are used with other materials during a manufacturing process. The resulting risk characteristics should be determined and made known to ultimate end-users and processors.

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