



Armor Epoxy

Foundation Armor
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PRODUCT DESCRIPTION

The Armor Epoxy is a specially formulated 2-part water-based epoxy for interior use. It offers superior penetration and bonding, making it a great choice for interior concrete applications.

BENEFITS/FEATURES

- ◆ Can be used as a primer or complete coating system
- ◆ Offers a smooth, gloss finish
- ◆ Offers resistance to many liquids and chemicals

SUGGESTED APPLICATIONS

- ◆ Maintenance rooms
- ◆ Chemical rooms
- ◆ Laboratories
- ◆ Veterinary and health clinics
- ◆ Concrete Floors
- ◆ Garage Floors
- ◆ Aircraft Hangers
- ◆ Warehouse Floors

TECHNICAL INFORMATION

VOC<20 g/l
Application temperature.....55-80 degrees F
Dry Time-Set to Touch.....20-40 Minutes
Dry Time-Foot Traffic.....14-24 hours
Dry Time-Wheel Traffic.....10 days
Recoat Window.....4-6 hours

Active Solids.....40%
Pot Life.....1-1.5 Hours
Viscosity.....200-350 cps
Mix Ratio.....1 to 1
Gloss 60.....86

SPECIFICATIONS/COMPLIANCES/EXTENDED TECHNICAL DATA

- ◆ Chemical spot resistance (18 Hour Exposure):
 - ◆ Toluene, Ethanol, Sulfuric Acid (10%), Acetic Acid (3%): NO CHANGE
- ◆ Food stain resistance (18 hour exposure)
 - ◆ Coffee, Ketchup, Mustard: NO CHANGE
 - ◆ Red Win: Slight Stain

COVERAGE

Coverage: Up to 200 - 300 ft² per gallon

*Coverage rates may vary depending upon surface porosity, texture, application method and prior coating application. Excessive build up should be avoided.

SHELF LIFE

When properly sealed and stored, the shelf life of the Armor Epoxy is up to 1 year.

PACKAGING

The Armor Epoxy comes in a 2-gallon kit.

APPLICATION INSTRUCTIONS

SURFACE PREPARATION: For a thin film build system (3-10 mils) we suggest either mechanical scarification, acid etching (and then neutralize to 7 PH), or diamond grinding until an appropriate profile is accomplished. For a high build system (over 10 mils), we suggest a fine brush blast (shot blast). To ensure adequate adhesion, the substrate must be free of all dirt, oil, dust, laitance and foreign contaminants. Prior to application a test should be made to determine that the concrete has an acceptable vapor barrier. This can be done by placing a 4' X 4' plastic sheet on the substrate and completely taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate does not show signs of eventual hydrostatic pressure problems that may later cause loss of adhesion. However, Armor Epoxy can be applied to a damp floor as long as there are no standing puddles and the dampness is not from a continuous source of moisture due to lack of a vapor barrier. Adhesion tests are recommended prior to using.

PRODUCT MIXING: Pour a full pre-packaged kit of 1 part of Part A to 1 part of Part B together and mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and homogenous. Water Based two part systems need to be mixed well for adequate cure and a streak free finish.

PRODUCT APPLICATION: Apply the mixed material by brush or roller with a 1/4" nap - 3/8" nap shedless roller cover within the usable pot life time frame, as well as the recommended temperature and relative humidity guidelines listed in the Technical Information section. If continuous out gassing in the concrete is causing bubbles, re-roll the material using a cross rolling method before the material cures to reduce or eliminate air en trapment. If the material becomes thick while applying and sticking to the roller, stop applying and discard the mixed material. At this point it has reached the end of the usable pot life. While applying keep a wet edge to prevent roller marks. It is recommended to work in sections usually using control joints as dividers to ensure proper application results. Do not allow product to puddle! If recoating after 24 hours a light sanding using a fine sanding screen may be needed to ensure adequate inner coat adhesion.

PLEASE NOTE: Applying Armor Epoxy outside of the suggested parameters may result in coating failure. It is always recommended to test the product in a small, inconspicuous area (on the same concrete substrate) for desired results prior to application. Coverage rates may vary for all coatings and substrates depending on porosity, density, texture etc.

CLEAN-UP

Use MEK. Dispose of containers in accordance with local and federal regulations.

PRODUCT REMOVAL

Dried, cured sealer may be removed with a commercial coating stripper, or by using a diamond grinding method, sandblasting method or similar mechanical action.

PRECAUTIONS AND LIMITATIONS

- ◆ Concrete must be fully cured for at least 28 days.
- ◆ Do not apply this product in extreme humidity. Work time and cure rate will be accelerated which may result in difficulty applying and less leveling.
- ◆ Do not apply this product on moist or damp concrete. Perform moisture tests prior to application.
- ◆ Physical properties listed on this technical data sheet are typical values not specifications.
- ◆ This product will freeze during storage so must store above 40 degrees F.
- ◆ ALL HVAC ventilation ducts should be somehow blocked prior to application so solvent fumes are not distributed.
- ◆ Use proper ventilation when applying in door during application and for hours after to ensure fumes can properly escape.
- ◆ Coverage rates depend upon many conditions including application method, surface porosity, and applicator.
- ◆ Be aware that this product may be slippery when wet. Non-Slip additives are available.
- ◆ Armor Epoxy may darken the surface of many new and existing concrete substrates. Test prior to use.
- ◆ Physical properties listed on this technical data sheet are typical values, not specifications.
- ◆ Do not let sweat or other liquids come into contact with the uncured coating.
- ◆ It is not recommended to apply this product over carpet, tile, or other types of floor adhesives.
- ◆ Do not thin this product. Improper thinning may cause sealer to delaminate in a short time frame.
- ◆ This product is intended as a primer/base coat only.
- ◆ This product is NOT intended for use over vegetable oil, animal fat or synthetic oil contaminated concrete.
- ◆ This product is NOT intended for use over concrete contaminated with motor oil or other automotive fluids.
- ◆ Relative humidity should not exceed 50% during the time of application or curing.
- ◆ This product, specifically Part B, is corrosive. Wear proper safety equipment while handling material.
- ◆ This product is not UV stable and should not be used outdoors or in areas exposed to excessive sunlight. Product can take up to 10 days to fully cure. Vehicles and other equipment should not be placed on the coating during this time period.
- ◆ If applying over an existing coating, proper adhesion and compatibility tests are essential. In this application the substrate preparation, application, performance and all other liabilities are strictly the end users responsibility. Foundation Armor also offers no guaranty, warranty or other claims to the success or results of a job or project.
- ◆ Applying Armor Epoxy outside the suggested parameters may result in product failure. It is always recommended to test the product in a small, inconspicuous area (on the same concrete substrate) for desired results prior to application. Coverage rates may vary for all coatings and substrates depending on porosity, density, texture etc. Applying too thin of a coating may cause inadequate film formation or performance expectations may be limited. DO NOT USE ON BRICK.
- ◆ ALWAYS read all SDS and TDS sheets prior to use and prior to determining project suitability.
- ◆ Information contained in this TDS is based on lab temperatures of 70° - 72°F at 50% RH. Using this product outside these conditions may affect the accuracy of the information contained in this document.

Foundation Armor warrants our products to be of good quality, free of defects and will conform with our published specifications in force on the date of acceptance of the order. As the exclusive remedy for breach of this warranty, we will replace defective materials. Thirty days after the product is shipped, all our warranty and other duties with respect to the quality of the materials delivered shall conclusively be presumed to have been satisfied, all liability therefore terminates, and no action for breach of any said duties may thereafter be commenced. No warranty is expressed or implied as to the length of life of this product, or merchantability or fitness. Liability, if any, is limited to the purchase price of the material. Under no circumstances will Foundation Armor be liable for consequential damage to anyone in excess of the purchase price of the products.