

Epoxy Primer for Use with Armor-Hard Product Line

TECHNICAL DATA

AHP-1

1. Product Name

ARMOR-HARD PRIMER

2. Manufacturer

METZGER/MCGUIRE

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3. Product Description

Armor-Hard PRIMER is a 100% solids, low-viscosity, two-part epoxy for use as a primer to enhance substrate adhesion with the Armor-Hard line of products including Armor-Hard HDR and Armor-Hard Kit.

Armor-Hard PRIMER's unique chemistry permits rapiddisplacement of substrate moisture, allowing for use on damp surfaces.

4. Packaging

Armor-Hard PRIMER is conveniently packaged in pre-measured two (2) component kits, containing a resin (Part A) and hardener (Part B). Kit yield = 3/4 gallon (3 gallon kits available upon request).

5. Typical Characteristics at 72°F (22°C)

Color	Light Amber
Mixing Ratio, (by volum	e)2A/1B
Working Time	
Gel Time	25 minutes
Tack Free Time	6 hours
	100-300 square feet per gallon pon surface porosity and profile.)

6. Advantages

Ideal for use in new or old damaged concrete floors, Armor-Hard PRIMER used with Armor-Hard repair products provides outstanding protection against a wide range of severe mechanical abuses typically found in industrial environments. Adhesion to concrete is excellent.

- 100% Solids
- Excellent Wear Resistance
- Excellent Impact Resistance
- Environmentally Friendly
- USDA/FDA/CFIA Acceptable
 Fast Walk-On Time

7. Chemical Resistance (28 Day Immersion @ 72°F)

Excellent Resistance

Motor Oil Unleaded Gasoline Gasohol Kerosene Diesel Fuel Xylene Ethyl Alcohol

Methanol Ethylene Glycol

Cyclohexanol

Very Good

1,1,1-Trichloroethane Toluene

70 % Sulfuric Acid 36 % Hydrochloric Acid 30 % Nitric Acid

10 % Nitric Acid 30 % Citric Acid 50 % Gluconic Acid 10 % Acetic Acid 50 % Sulfuric Acid

10 % Lactic Acid

10 % Hydrochloric Acid 75 % Phosphoric Acid

50 % Sodium Hydroxide

Bleach

Not Recommended

Methyl Ethyl Ketone 50 % Acetic Acid 50 % Nitric Acid Methylene Chloride









8. Surface Preparation

Armor-Hard PRIMER is used to strengthen and seal a porous concrete substrate, therefore, adhesion is paramount. To achieve maximum adhesion, the substrate should be free of all loose and foreign materials and should be roughened to provide a coarse profile by either shot blasting or shaving/planing the concrete floor surface.

Before shot blasting, any contaminants on/in the concrete must be identified. Oils, grease, fats, waxes, or other contaminants must be removed prior to roughening the concrete. Contaminants can be removed with an application of warm (120-140°F) caustic detergent, a chemical cleaner/degreaser, steam cleaning or pressure washing. Degrease the floor and follow with a hot water rinse. Repeat this process until the water does not "bead up" on the concrete.

NOTE: NEW CONCRETE SHOULD HAVE A MINIMUM CURE OF 30 DAYS PRIOR TO THE APPLICATION OF ANY EPOXY. CONCRETE MUST BE TESTED FOR MOISTURE AND VAPOR TRANSMISSIONS BEFORE COATING.

9. Application

Primer Mixing: Armor-Hard PRIMER is a two component system. Both components (liquids A and B) should be stored or conditioned at 70-90°F (21-32°C) prior to mixing. Pour the hardener (B side) into the resin (A side) and blend thoroughly using a mixing paddle and slow speed hand drill for 3 minutes. Mix at slow speeds (less than 850 rpm) to avoid air entrainment. Do not mix more material than can be used within the stated working time. Remember - you will have less working time at higher temperatures. Working time is approximately 20 minutes at 72°F (22°C)

DO NOT apply Armor-Hard PRIMER over standing water. Damp or dry concrete is acceptable.

Primer Application: Armor-Hard PRIMER can be applied by brush or short nap roller. Do not thin primer! Do not over-apply or allow to puddle. A thin, uniform coat is preferred. Do not apply to concrete colder than 50°F (10°C) as insufficient curing may result.

Coverage: 100-300 square feet per gallon depending upon surface porosity and profile.

Armor-Hard products can be applied to the Armor-**Hard PRIMER** immediately or while primer is still tacky. If primer is no longer tacky, it is necessary to mechanically abrade the surface and re-apply primer prior to installing Armor-Hard products.

Do not rapidly raise the air or substrate temperature; this can cause outgassing of the concrete and joint shrinkage. This also can lead to product cracking or failure.

10. Clean Up

Armor-Hard PRIMER, before it has hardened, can be removed from tools with solvent or warm soapy water.

11. Shelf Life and Storage

Armor-Hard PRIMER has a guaranteed shelf life of two (2) years if containers remain unopened. Store in dry, cool areas away from excessive heat, freeze/thaw and sunlight.

12. Safety Precautions

Avoid breathing of vapors. Forced local exhaust is recommended to effectively minimize exposure. NIOSH approved, organic vapor respirators and forced exhaust are recommended in confined areas, or when conditions (such as heated polymers, sanding) may cause high vapor concentrations. DO NOT WELD ON, BURN OR TORCH ON OR NEAR ANY LIQUID EPOXY MATERIAL. Hazardous vapor is released when an epoxy is burned. Avoid skin or eye contact. Wash skin with soap and water if contact occurs. If eye contact occurs flush with water for 15 minutes and obtain medical attention. Read and understand all cautions on can labels and safety data sheets before using this material.

13. Material Warranty

WARRANTY: Metzger/McGuire Co. solely and expressly warrants that its Armor-Hard PRIMER shall be free from defects in material and workmanship for 365 days from the date of purchase. Unless authorized in writing by an officer of Metzger/McGuire, no other representations or statements made by Metzger/McGuire or its representatives, in writing or orally, shall alter this warranty. Metzger/McGuire makes no warranties, implied or otherwise, as to the merchantability or fitness for ordinary or particular purposes of its products and excludes the same. If any Metzger/McGuire product fails to conform with this warrant, Metzger/McGuire will replace the product at no cost to the purchaser. Purchaser's sole remedy in any case shall be limited to the purchase price or replacement cost of product and specifically excludes labor and the cost of labor, lost wages and opportunity costs, and all other possible incidental, consequential or special damages resulting from any claim of breach of warranty, breach of contract, negligence or any legal theory. Any warranty claim must be made within one (1) year from the date of material purchase. Metzger/McGuire does not authorize anyone on its behalf to make any written or oral statements which in any way alter the installation procedures or written installation instructions published in its product literature or on its packaging labels. Any installation of Metzger/McGuire products which fails to conform with such installation information or instructions shall void this warranty. Purchaser shall be solely responsible for determining the suitability of Metzger/McGuire's products for the purchaser's intended purpose.

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