

# ARMOR EPOXY

PRODUCT CODE: EPOXY2GAL

## 2K Water Based Epoxy (Low Odor)

### PRODUCT DESCRIPTION

**Armor Epoxy** is a specially formulated, low odor, two component, water based epoxy primer for interior use. This product provides excellent substrate penetration and is a suitable primer for most epoxies, urethanes, polyureas and polyaspartic polyureas.

### BENEFITS/FEATURES

- ♦ Excellent substrate wetting and penetration
- ♦ Superior adhesion strength for a bond coat
- ♦ Fast cure system with reduced recoat times
- ♦ Low Odor

### RECOMMENDED APPLICATIONS

**Armor Epoxy** is recommended for priming properly prepared concrete or masonry surfaces in commercial, retail, and high traffic areas. Excellent for wall and floor coatings, institutional coatings and heavy duty maintenance coatings.

### TECHNICAL INFORMATION

Abrasion Resistance.....54 - 65 mg loss  
(Tabler Index, ASTM 4090-81, CS-17 Abrasion Wheel, 1000 gram load)  
Gloss 60.....86  
Flexibility (1/8" Mandrel).....Pass  
Pencil Hardness (7 days).....F  
Water Resistance.....Excellent  
Solids % Weight (Federal Spec. TTP-141B).....40%  
Density lbs/Ga. (Federal Spec. TTP-141B).....8.54  
VOC .....< 20 grams per liter

Mix Ratio (a/b volume).....1 to 1  
\*\* 9.07# part A (1.0 gallon approximate) to 8.54# part B (1 gallon approximate)  
Coverage (2-3 mils dft).....200-300 sq. ft./ga  
Viscosity.....200 - 350 cps  
Pot Life.....1 - 1.5 hours  
Dry Time-Set to Touch (50% R.H. @ 72° F).....20 - 40 minutes  
Dry Time-Recoat (50% R.H. @ 72° F).....4-6 hours  
Dry Time-Light Traffic (50% R.H. @ 72° F).....6 -12 hours  
Dry Time-Full Cure (heavy traffic) (50% R.H. @ 72° F).....2 - 5days  
Application temperature.....55-90 degrees F with relative humidity below 75%

### CHEMICAL RESISTANCE

#### Chemical spot resistance 1 hour and 18 hour exposure

|                     | <u>1 h</u> | <u>18 h</u> |
|---------------------|------------|-------------|
| Toluene             | +          | +           |
| Ethanol             | +          | +           |
| Sulfuric Acid (10%) | +          | +           |
| Acetic Acid (3%)    | +          | +           |
| Acetic Acid (10%)   | H/B        | B           |

+ = no change; H = haze; B = blisters

#### Food stain resistance 18 hour exposure

|          | <u>18 h</u>  |
|----------|--------------|
| Coffee   | no change    |
| Ketchup  | no change    |
| Mustard  | no change    |
| Red Wine | slight stain |

### PRODUCT STORAGE

Store product in an area so as to bring the material to room temperature within the recommended application temperature range before applying. Long term storage should be between 60 and 90 degrees F. Keep from freezing.

### SHELF LIFE

**Armor Epoxy** has a shelf life of at least one year in it's original, sealed, unopened container.

### PACKAGING

**Armor Epoxy** is packaged in 2 gallon and 10 gallon kits.

### FOUNDATION ARMOR

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EPOXIES, URETHANES, ETC.

ARMOR EPOXY

## INSTRUCTIONS FOR USE

**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 entrapment. 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 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 job 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 PM Solvent. Dispose of containers in accordance with local and federal regulations.

## PRODUCT REMOVAL

Dried, cured urethane may be removed with a commercial stripper, but recommended removal is by way of mechanical means, including sanding, shot blasting, etc.

## PRECAUTIONS AND LIMITATIONS

- ▶ All new concrete must be cured for at least 28 days prior to application.
- ▶ Coverage rates depend upon many conditions including application method, surface porosity, applicator, ect.
- ▶ **Armor Epoxy** should be applied in thin coats. Do not puddle.
- ▶ Be aware that this product may be slippery when wet. Anti Slip additives may be needed to reduce surface slip hazards.
- ▶ **Armor Epoxy** may darken the surface of many new and existing concrete substrates. Test prior to use.
- ▶ Product will yellow in the presence of UV light or other forms of light such as sodium vapor lighting.
- ▶ Physical properties listed on this technical data sheet are typical values not specifications.

•• 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 offers no guaranty, warranty or other claims to the success or results of the job in this circumstance.

## SPECIAL NOTES

Please consult Material Safety Data Sheet (MSDS) and read Warranty information prior to use.  
**KEEP CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY.**

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