



AVM Epoxy Primer 401-FC

Two-Component, Fast Cure, Epoxy-Polyamine Primer

Sections 071800 / 071813 / 071816
Fluid-Applied Waterproofing

Product Name

AVM Epoxy Primer 401-FC (Fast Cure)

Manufactured by

AVM Industries, Inc.
8245 Remmet Ave, Canoga Park, CA 91304
888.414.1041 818.888.0050
www.avmindustries.com

Product Description

AVM Epoxy Primer 401-FC is a two component, liquid applied, solvent-based, fast-cure epoxy-polyamine primer with unique penetrating characteristics. This primer can be used over Concrete, Plywood, Metal Flashings and other Polyurethane and Acrylic Coatings.

Advantages

- Excellent Adhesion
- Low Viscosity
- Bonds to many different substrates and surfaces
- 100% Solids, Low VOC, Low Odor
- Interior or Exterior
- Fast Cured Primer

Where to Use

Epoxy primer 401-FC is a multi-purpose solvent-based Epoxy-Polyamine Primer. **AVM Epoxy Primer 401-FC** will bond to most substrates including concrete, wood, metal, glass-reinforced plastics, polyurethane elastomeric surfaces, and many other substrates. Using **AVM Epoxy Primer 401-FC** will allow you to apply many coatings to many different substrates when bonding is a challenge or when the ultimate adhesion is required.

Warranty

If sold as part of an AVM system, refer to that system's warranty for details. If sold as a stand-alone primer, AVM's standard 1 year material warranty applies. For complete warranty information, go to www.avmindustries.com.

Delivery, Storage, and Handling

- Delivery of the AVM Epoxy Primer 401 components must be in their original sealed containers, with manufacturer's name and label intact.
- Handle and store containers in accordance with printed instructions.
- Store at temperatures between 50°F and 95°F. Do not store materials in direct sunlight or where they may be damaged by water or rain.
- Keep all materials out of the reach of children.
- If irritation occurs during use, liberally flush affected areas with water. If irritation continues, see a physician immediately.
- Shelf life is one year from manufacturing date in sealed, unopened containers.

Project Conditions

- Do not apply materials at temperatures below 40°F, or if precipitation is imminent, or above 100°F if applying in direct sunlight.
- Provide adequate ventilation during installation.
- Warn personnel against hazards of materials to skin and eyes.
- Protect adjacent surfaces which could be damaged during the application.
- Concrete substrate must cure for a minimum of 7 days, be dry to the touch, and have a moisture content of no more than 15% prior to installation.
- Always protect materials from excessive heat and cold, and pre-condition to room temperature, as necessary.

Surface Preparation

The substrate surfaces must be structurally sound, clean, dry, and free of efflorescence, dust, dirt, silicone, oil and other contaminants that would prevent the proper penetration and/or bonding of the AVM Primer 401-FC to the substrate. Joints or cracks should be sealed or filled prior to the application of the AVM Primer 401-FC. AVM Primer 401-FC may be applied directly over other coatings as long as they are in good condition and properly attached to their substrates. For improved bonding and long-lasting adhesion, it is recommended to remove all existing coatings, paints, etc. prior to the application. Depending on existing conditions, additional preparation such as sandblasting or water-blasting might be required, especially when bonding to older cementitious surfaces (Concrete, blocks, slabs, bricks, etc.). If you intend to apply the AVM Primer 401-FC over an existing coating or sealer, make sure it's clean (Pressure washing is highly recommended) and then do a test in a small area to ensure proper bonding. Metal flashings and other sheet metal-based surfaces need to be thoroughly cleaned and have all oils, grease etc. removed. Lightly sanding these surfaces is highly recommended since it will significantly increase bonding. ICRI CSP 3 is necessary.

Application Equipment

rpm) with a Jiffy® type impeller mixing paddle, a disposable 3-inch brush for precise application, a 3/8-inch nap non-shedding roller with a phenolic core, and a rubber squeegee. Pouring, squeegeeing, and back-rolling are recommended techniques because Dip-n-Roll can be challenging for less experienced installers, potentially resulting in unsightly lap lines.

Mixing

Maintain the temperature of both (A) and (B) components between 70°F and 80°F (20°C-25°C). Mix each component separately with a drill and paddle for a minimum one minute each and for a minimum 2 minutes when Part-A and Part-B are mixed together. For a 3-gallon kit, pour (Side-B) into (Side-A) in a 3.5-gallon bucket. Thoroughly mix the contents until all components are fully integrated, and no streaking is evident. Avoid thinning the mixture.

Precise measurement of each component is crucial for optimal product performance. Consider the beneficial technique of pouring from one container to the other (boxing) during mixing to ensure thorough blending. Mix for a duration of 2 minutes.

Application

Once you have thoroughly mixed all the components according to the instructions, promptly pour the mixture onto the surface. Evenly spread the material using a roller or squeegee. It is crucial to perform back-rolling and then cross-rolling to ensure proper penetration of the epoxy primer into the substrate and a uniform film thickness. Allow to dry until dry to the touch before applying any coating over the epoxy primer. Drying time is approximately 2-4 hours but may vary based on temperature, humidity, and other factors. Once dry to the touch, the "Open Time" to apply coatings over the primer is approximately within 12 hours. (Open Times may vary based on temperature, humidity and other factors). Light foot traffic may be permitted in 8-12 hours, Vehicle traffic after 3 days.

Coverage Rates

300 sf per gal @ 5 wet mil thickness
100 sf per gal @ 16 wet mil thickness
80 sf per gal @ 20 wet mil thickness

Quality Control

- Visually inspect all coated surfaces to ensure a full and proper coating application, especially at corners, pinholes, drainage scuppers and other hard-to-reach areas.
- All unsatisfactory areas shall be re-coated before proceeding with other coatings.

Protection of Installed Work

For best results the primed sections shall be protected from all pedestrian traffic until the primed sections are coated with the next waterproofing layer. (The amount of drying time may vary depending on temperature and humidity conditions).

Applying Coatings Over the Primer

Allow primer to become thumbprint-tack free before applying the coating. (Primer will still be a little tacky) If fully cured, reprime.

Cleanup

Tools and equipment should be cleaned with an environmentally friendly solvent, as permitted by local regulations immediately after use.

Availability and Cost

Contact AVM Industries or your approved applicator for pricing and availability.

Technical Services

Technical services are available by contacting our offices at: **888.414.1041** or **818.888.0050** or visit www.avmindustries.com

System Specifications

See next page.

The following coverages are based on controlled tests. Actual coverages may vary.

Property	Results	Test Method
Volatile Organic Compounds (VOC)	<5 g/l	
Density	8 lbs/ga.	
Softening Point	266°F (130°C)	
Abrasion Resistance	40 mg loss	ASTM D4060
Bond Strength	>2.06 MPA (300 psi)	ASTM D4541
Coefficient of Thermal Expansion	.89x10 ⁻⁵ in/in/°F	ASTM D696
Tensile Strength	7500 psi	D2370
Water Absorption	<.1%	ASTM C413
Impact Resistance	160 in/lb	
Hardness	70-80	Shore D
Flow	325mm	
Coefficient of Friction	.7 smooth	ASTM D2047
Thermal Compatibility	Pass	ASTM S884
Compression	8,000 psi	ASTM S695
Flexural Strength	16.2 MPa (2350 psi)	ASTM C580
Pot Life	15-20 minutes	
Mix Ratio	Mix full units only	
Application Temperature	45°F (7°C) min. / 86°F (30°C) max	
Service Temperature	-40°F (-40°C) min. / 248°F (120°C) max	
Visual Appearance	High Gloss	
Curing Details: Foot Traffic: Light Traffic Full Cure	6-10 hours 36 hours 5-6 days / ¼" (6mm)	

For a complete list of details in CAD or PDF, please visit our website at www.avmindustries.com.

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Quality Waterproofing Products

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