



**AMERICAN EPOXY  
FLOORING SERVICES**  
877-631-8564

# AE - METALLIC

METALLIC PIGMENTS FOR 100% SOLIDS EPOXY SYSTEMS

AE-METALLIC is a concentrated powdered metallic pigment designed for use in our AE-100 system. When applied over a properly prepared and primed surface, the effects that can be achieved are virtually endless, producing an extremely unique and desirable result. Available in an excellent variety of 20 earthy and vibrant colors, our selection is sure to appeal to a wide variety of clients.

Specifications / Compliances • Meets OTC, CARB, LADCO & SCAQMD VOC restrictions.



## KEY FEATURES & TYPICAL BENEFITS

- 20 vibrant standard colors to choose from.
- Very unique application to finish and beautify commercial, industrial, and residential interior floors.
- Easily disperses into AE-100 which allows for incredible flow with the metallic.
- Provides a beautiful metallic, mottled effect with unique and varied depth perception.
- Contains 0 g/L VOC content making this product legal for sale to all regions of the US and Canada.

## Typical Properties & Technical Information

PROPERTY	VALUE
Solids/Active Content, Percentage by weight	N/A
Pot Life	See epoxy data sheet
Dry Time - Tack Free	See epoxy data sheet
Dry Time - Foot Traffic	See epoxy data sheet
Dry Time - Heavy Traffic	See epoxy data sheet
Re-Coat Time Window	See epoxy data sheet
Application Temperature	50° F - 80° F
VOC (Volatile Organic Compound) Content	N/A
Appearance - Dry	Clear and High Gloss

Information above 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 above. Always test prior to use!

ALWAYS REFER TO SDS & READ FULL TECH DATA SHEET AND WARRANTY INFORMATION PRIOR TO USE.



## RECOMMENDED APPLICATIONS

- Showrooms
- Office Space
- Lobby Areas
- Residential Homes
- Many other interior concrete surface where a high end, unique coating is desired.

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## **APPLICATION INSTRUCTIONS**

**Description:** AE-METALLIC is a high build, highly durable, metallic epoxy flooring system designed for interior residential, commercial, retail or restaurant concrete floors. The AE-METALLIC system offers 20 different colors which can be used individually or in any combination of multiple colors. The excellent flow and leveling properties of AE-100 when mixed with our AE-METALLIC pigment results in an beautiful, one of a kind marble like finish. Every job is unique!

Our AE-100 is a low viscosity 100% solids cycloaliphatic epoxy that is easy to apply and provides an extremely hard, high gloss, durable coating in clear, pigmented, or metallic finishes. **Refer to AE-100 Technical Data Sheet and SDS prior to use!**

Unlike most concrete coatings systems, there are no set rules on the method of application due to the multiple possibilities in color combinations and finishing techniques that can be used to manipulate the visual effect of the AE-METALLIC pigments.

### **Common Application Procedures**

**Surface Preparation:** If cracks are present, clean out cracks and if necessary rout out the cracks with an electric hammer drill and chisel bit, vacuum out loose debris and fill cracks with AE-FS100 crack filler (refer to the AE-FS100 Technical Data Sheet application instructions).

Mechanically grind the floor with a diamond grinder using 30 grit or coarser diamonds or shotblast the surface to achieve a CSP-3 to CSP-5 profile (ICRI guidelines, www.icri.org) to ensure adequate adhesion of the AE-METALLIC system. Sweep and vacuum entire floor and follow with an acetone wipe with a dust mop to pick up any remaining dust.

**Prime Coat:** For a 3 Gallon kit, depending on the desired colors, mix either a 16 oz AECF color pack for a solid color prime coat or a 32 oz AE-METALLIC pigment pack to the Part A AE-100 and slowly stir with a drill mixer 1 – 2 minutes or until color is thoroughly dispersed. Then add Part B AE-100 and stir slowly 2 full minutes or until the color is thoroughly mixed scraping the sides and bottom of the mixing vessel. Apply the mixed material using a flat or notched squeegee at 100 – 150 square foot per gallon and back roll using a shedless 3/8" nap roller cover. A common prime coat color used is black. It hides discoloration of the concrete and crack patching material and also works excellent as a background color to the top coat AE-METALLIC pigment, however, any color of AECF or AE-METALLIC pigment can be used for the prime coat to achieve the desired color effect. **Suggested application temperature:** surface, air and material temperature range for AE-100 50° - 85° F. Pour and apply mixed material on the floor immediately after mixing. Leaving in mix container will shorten pot life time.

**Prime Coat Notes:** It is critical to completely seal off the floor during the prime coat to eliminate outgassing from the concrete pores. If not completely sealed off during the prime coat application, late outgassing from the pores of the concrete can create late bubbles in the thicker applied AE-METALLIC coat. As the prime coat is applied back rolling is a vital step for a successful job! Also, an excellent tool to have on hand during the prime coat is a spiked or porcupine roller with an extension handle to be able to reach back out on the floor to pop a late bubble from outgassing. If the concrete is extremely porous or soft and if better penetration is needed to seal off the floor, adding 1-2 ounces of Xylene per gallon to the AE-100 will help reduce or eliminate outgassing from the concrete floor. Applying a coat of our low solids, low viscosity water based epoxy, AE-WB40 (refer to AE-WB40 Technical Data Sheet) prior to the AE-100 will also help reduce outgassing and improve adhesion to the concrete.

**AE-METALLIC Coat:** For a 3 Gallon kit mix a 32 oz bottle (add more or less to achieve desired opacity) of AE-METALLIC color in the Part A AE-100 and mix for 1 – 2 minutes with a drill mixer at slow speed. Add Part B AE-100 to the pigmented Part A and stir gently but continuously with a drill mixer for 2 full minutes scraping the sides and bottom of the mixing vessel. Apply mixed material with a flat or notched squeegee or shedless 3/8" roller cover at a rate of approximately 75 – 100 square foot per gallon or at the desired mils rate of thickness. Various visual effects can be obtained by different finishing techniques. Techniques such as swirling your roller in a circular motion, hand troweling in short strokes, using multiple colors mixed separately and poured out in ribbon like streams then rolled, squeegeed or troweled, misting Denatured Alcohol, MEK or Acetone on the surface or even using a leaf blower are some of the techniques that can be used to create custom finishes.

PLEASE NOTE: 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.

PLEASE NOTE: Applying material 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. When applying, adhere to suggested coverage rates. Applying too thin of a coating may cause inadequate film formation, limited performance expectations and/or undesirable finish. Applying too thick may result to bubbling, hazing, etc. DO NOT USE ON BRICK.

COF WARNING: OSHA and the American Disabilities Act (ADA) have now set enforceable standards for slip-resistance on pedestrian surfaces. The current coefficient of friction required by ADA is .6 on level surfaces and .8 on ramps. American Epoxy Flooring Services recommends the use of slip-resistant aggregate in all coatings or flooring systems that may be exposed to wet, oily or greasy conditions. It is the contractor and end users' responsibility to provide a flooring system that meets current safety standards. American Epoxy Flooring Services nor its sales agents will be responsible for injury incurred in a slip and fall accident.



## **PRECAUTIONS AND LIMITATIONS**

- This product will not freeze during storage, however, allow temperature to rise to 50°F prior to application.
- All HVAC ventilation ducts should be somehow blocked prior to application so solvent fumes are not distributed.
- If using indoor, use proper ventilation while applying and for hours after application to ensure fumes are removed.
- Product should be considered a nuisance dust. Where protective mask while handling powder.
- It is not recommended to apply product over carpet, tile, or other types of floor adhesives.
- This was designed for interior concrete. It is not recommended for exterior applications.
- Please be aware that this product when cured may be slippery when wet. An anti-slip additive can be added to reduce slip hazards.
- This product is not resistant to brake fluid, gasoline, and many similar products.
- This product should not be sprayed. Refer to instructions above prior to use.
- This product may darken the surface of many new and existing concrete slabs. Test prior to use.

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CLEAN-UP: Use MEK for finished, colored epoxy coating. Soap and warm water is adequate to clean powder pigment only, from hands and skin. Dispose of containers in accordance with local, state and federal regulations.

PRODUCT REMOVAL: Refer to epoxy technical data sheet.

SHELF LIFE: Up to one year from manufacture date in its original, unopened container stored at room temperature.

PACKAGING: Available in 32 oz. containers (each containing approximately 8 oz. by weight of pigment)

Always read all technical information, label and SDS prior to use. This information can be found online or by calling customer service at the number below.

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American Epoxy Flooring Services 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. Ninety days after American Epoxy Flooring Services has shipped the products, 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 American Epoxy Flooring Services be liable for a consequential damage to anyone in excess of the purchase price of the products.