

PRODUCT DATA SHEET

SIKACOAT® AE400F

Sikacoat® AE400F is a fibrated, water-based asphaltic emulsion manufactured from refined asphalts, non-asbestos reinforcing fibers and clays.

PRODUCT INFORMATION

USES

Sikacoat AE400F is used as a protective coating over new or existing roofs prior to installing Sikacoat roof coatings.

AREAS OF APPLICATION

- Smooth surface and granulated asphalt built-up roofs
- SBS and APP modified bitumen roofs
- Metal roofs
- Masonry

FEATURES / BENEFITS

- Faster drying, very low odor alternative to solvent borne asphalt roof coatings
- Will not crack, run or sag in extreme weather conditions
- Low VOC content
- Provides corrosion resistance on metal surfaces

TESTS

APPROVAL / STANDARDS

ASTM D-1187, Type I

ASTM D-1227, Type II, Class 1

PRODUCT DATA

FORM

COMPOSITION

Liquid

COLOR

Brown when wet, black when dry

VOC CONTENT

<50 g/l

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PACKAGING

5 gallon (18.9 L) pails, 45 lbs (20.4 kg) per pail, 36 pails per pallet in East US, 48 pails per pallet in West US

55 gallon (208.2 L) drums, 525 lbs (238.1 kg) per drum, 5 drums per pallet
275 gallon (1041 L) totes, 2380 lbs (1079.5 kg) per tote, 1 tote per pallet

STORAGE

STORAGE CONDITIONS

Store materials in a dry area between 40°F (4°C) and 100°F (38°C) with careful handling to prevent damage to products. Do not store at high temperatures or in direct sunlight. Keep lids tightly closed when not in use. Protect all materials from freezing and other damage during transit, handling, storage, and installation. Maintain package labeling during storage.

SHELF LIFE

12 months if stored properly in original unopened, sealed and undamaged packaging.

TECHNICAL DATA

TYPICAL PHYSICAL PROPERTIES*

Brookfield Viscosity, ASTM D-2196: 45000 to 80000 cPs

Solids by Volume: 40-50%

Solids by Weight, ASTM D-2939: 45-55%

Weight per Gallon: 8.8 lbs./gal (±0.2 lb), 1.05 kg/L (±0.09 kg)

Flash Point: >212°F (100°C)

Consistency @ 77°F (25°C): Thixotropic

*Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

SYSTEM INFORMATION

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

Surface to be coated must be clean and in good repair. Surface must be clean. Sweep or hose down area to remove all dust, dirt, and residues. Scrub areas where water ponds with Sikacoat W400 wash and rinse well. Allow the roof surface to dry.

Repair cracks, splits, holes and other roof deficiencies with a three-course application of Sikacoat reinforcing fabric (RF400D or RF400F) embedded in either Sikacoat S400 sealant or Sikacoat AE400F. Solvent-based sealants, if used, must be allowed to cure a minimum of 30 days prior to coating with Sikacoat AE400F.

Metal surfaces must be clean and free of dirt, dust, oil, grease, wax, rust, chalky or loose paint. Priming of metal surfaces is not necessary unless rust is present. Remove all rust and scale, then prime area with Sikacoat P400R.

MIXING

Stir thoroughly before application to achieve uniform consistency.

APPLICATION METHOD / TOOLS

Apply with a four knot roof brush or suitable spray equipment.

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For fully reinforced systems, apply a coat of Sikacoat AE400F at a rate of 6 gallons per 100 square feet (2.44 L/m²) and immediately begin the installation of Sikacoat RF400F reinforcing fabric. Do not walk on Sikacoat RF400F during application or while the Sikacoat AE400F is wet since this will displace the emulsion. Allow AE400F to dry thoroughly before applying the Sikacoat roof coatings.

For non-reinforced systems, apply a coat of Sikacoat AE400F at a rate of 3 gallons per 100 square feet (1.22 L/m²). A second coat of Sikacoat AE400F may be applied at the same rate as the first coat for added protection once the first coat has dried. Allow Sikacoat AE400F to dry thoroughly. Prime the Sikacoat AE400F with Sikacoat P410 primer and allow to dry before applying the Sikacoat roof coatings.

Sikacoat AE400F typically dries within 6 to 24 hours in hot and dry weather conditions. Drying will be slower, 2 to 7 days, in cool, damp weather conditions. Sikacoat AE400F is dry when the color turns from brown to black and it leaves a shiny black mark when scratched.

COVERAGE

For fully reinforced systems, apply Sikacoat AE400F at a rate of 6 gallons per 100 square feet (2.44 L/m²).

For non-reinforced systems, apply Sikacoat AE400F at the rate of 3 gallons per 100 square feet (1.22 L/m²).

CLEAN UP

Wet material and all tools and equipment may be cleaned with water. Rinse tools and equipment with water before using.

PRODUCT LIMITATIONS

LIMITATIONS

Precautions should be taken to prevent odors and/or vapors from entering the building/structure, including but not limited to turning off and sealing air intake vents or other means of ingress for odors and/or vapors into the building/structure during product application and cure.

- Apply Sikacoat AE400F when temperatures are expected to remain above 50°F (10°C) and if no rain is expected for the next 24 hours.
 - Drying time may vary depending upon weather conditions.
 - Do not use on the interior of water tanks or any surface having contact with potable water.
 - Sikacoat AE400F is an emulsion roof coating and this product is not designed to seal leaks.
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AVAILABILITY

From Authorized Applicators when used within Sikacoat roof coating systems.

MAINTENANCE

Standard maintenance of roofs should include regular inspection of flashings, drains and termination sealants at least twice a year and after each storm.

WARRANTY

As a Sika supplied accessory, Sikacoat AE400F is covered under Sika Corporation warranties.

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