

6165 W Detroit St. • Chandler AZ 85226
+1 (602) 276-0406 • +1 (800) 528-8242 • FAX +1 (480) 961-0513
www.crafco.com

READ BEFORE USING THIS PRODUCT

GENERAL DESCRIPTION

ACTION PAVE[®] AE is an environmentally friendly, heavy-duty, concentrated, asphalt emulsion sealer specifically designed to protect and beautify asphalt pavements. ACTION PAVE[®] AE is based on a carefully selected grade of asphalt, minerals, latex polymers, and specialty additives that are environmentally friendly and will meet all requirements for PAH maximum content. ACTION PAVE[®] AE is tough and water repellent. ACTION PAVE[®] AE forms a tough, durable, and flexible coating that protects asphalt pavements from the damaging elements of weather, water penetration, de-icing salts, traffic damage, surface raveling/checking. ACTION PAVE[®] AE is recommended for use on many asphalt pavement surfaces, including home driveways, commercial parking lots, apartment complexes, restaurants, schools, truck terminals, airfield taxiways, parking areas, bridge decks, shoulders, golf, bike, and walking paths and many more. ACTION PAVE[®] AE is mixed on the jobsite with water and sand to provide proper application consistency, skid resistance, and wear resistance. Polymer and other additives may also be added at the jobsite for improved durability. ACTION PAVE[®] AE is available in a variety of forms including concentrate, ready mix, sand mix & sand ready mix. The combination of state-of-the-art technology in manufacturing and raw material selection translates into the following outstanding properties. VOC < 10 g/l.

OUTSTANDING PROPERTIES

- Contains less than 0.10% Polycyclic Aromatic Hydrocarbon (PAH).
- Beautifies While It Protects – Dries to an appealing dark color that enhances the value of the property.

SPECIFICATION CONFORMANCE

ACTION PAVE[®] AE meets and exceeds all requirements of ASTM Specification D8099, *Standard Specification for Asphalt Emulsion Pavement Sealer (Mineral Colloid or Chemically Stabilized Type)*.

Test

Uniformity (D2939)

Wet Film Continuity (D2939)

Density, 25 °C (77 °F) g/mL, (lbs./gal) (D2939)

Residue by Evaporation, % (D2939)

Water Content, % (D95)

Ash Content of Residue, % (D2939)

Drying time, firm set, h (D2939)

Resistance to Heat

Resistance to Water

Flexibility

Polycyclic Aromatic Hydrocarbon content (PAH), %

Polymer Solids to Asphalt, weight %

ASTM D8099 Spec. Limits

No Separation, coagulation, or settlement that cannot be overcome by moderate stirring

Uniform homogeneous consistency

1.0 (9) - 1.5 (12)

30% minimum

70% maximum

10 - 70

8 maximum

No blistering, sagging, slipping

No loss of adhesion, no blistering, or tendency to re-emulsify

No flaking, cracking, or loss of adhesion to the substrate

Additional Properties

0.1% maximum

2% minimum

SURFACE PREPARATION

Clean the surface thoroughly to remove all foreign debris (dirt, gravel, silt, etc.) using air blowers or by flushing with water. Embedded dirt and silt shall be removed with steel bristle hand brooms. Remove dirt and debris from site, being careful to avoid upsetting existing landscaping and accumulating dirt in grass along asphalt areas.

GREASE AND OIL SPOTS Treat all grease and oil spots by scraping off excess oil and dirt with a wire bristle and coat with an oil spot primer. Oil spot primer or recommendations are available from CRAFCO SUPPLY CENTERS. The oil spot primer is supplied as a concentrate and should be diluted 2 parts water to 1 part primer. The primer shall be applied using brush or garden sprayer covering the oil spot and at least 2 inches of the asphalt surrounding the oil spot.

POTHOLES Repair potholes and damaged asphalt areas. Install cold patch or hot applied mastic material to minor potholes. Repair heavily damaged areas using a full-depth asphalt repair. Saw cut and remove damaged asphalt. Repair base if necessary. Install asphalt mix and ensure proper compaction. HP patch is available from CRAFCO SUPPLY CENTERS.

CRACK SEALING Seal all cracks greater than 1/16 inch in width. Manufacturer installation instructions shall be followed for crack preparation, routing if required, overbanding, and application. Sealant choice is based on climate conditions and type of project. Contact your CRAFCO SUPPLY CENTER or Crafcoc representative for specific applications.

ACTION PAVE[®] AE PAVEMENT SEALER

PART NO. 11970AE

AUGUST 2022

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MIX DESIGN RECOMMENDATIONS

ACTION PAVE[®] AE is supplied in concentrated form that is field mixed with water and sand prior to installation. Polymer additives may also be used to improve durability. Recommended application consists of using 2 coats in low and moderate traffic areas and using 3 coats in heavy traffic areas. Recommended mixture ranges and application rates are as follows:

USE AREA	COAT	ACTION PAVE [®] AE (Gallons)	WATER ⁽¹⁾ (Gallons)	SAND ⁽²⁾ (Pounds)	POLYMER ⁽³⁾ (Gallons)	APPLICATION RATE (Gallons/ Square yard)
LOW TRAFFIC - home driveways, Parking lots, walkways, bike paths	1 st	100	15-25	100-200	0-3	0.08-0.10
	2 nd	100	15-25	0-200	0-3	0.10-0.12
MODERATE TRAFFIC - airfields, Highway shoulders	1 st	100	15-25	200-400	0-4	0.10-0.12
	2 nd	100	15-25	0-400	0-4	0.12-0.15
HEAVY TRAFFIC - Airfield taxiways, malls, Commercial parking lots, service plazas	1 st	100	25-35	300-500	0-5	0.12-0.15
	2 nd	100	25-35	300-500	0-5	0.12-0.15
	3 rd	100	15-25	0-300	0-4	0.10-0.12

NOTES:

1. Water shall be clean and potable.
2. Sand shall be clean, angular quartz or slag sand meeting AFS 50-70 gradation, or equivalent.
3. Polymer shall be Macro-Flex, Max-Dri, Advantage 4 or equivalent.

Sand Slurry Preparation

Add the required amount of water to the sealer and mix thoroughly with mechanical agitation. Keep the agitator running at a moderate rate and add the sand in a steady stream of about 100 pounds per minute. Mix the material for 10 minutes. If the mixer is shut off for more than 10 minutes, such as on transport to the job site, mix 10 minutes before application can begin.

IMPORTANT WEATHER LIMITATIONS FOR APPLICATION

- Surface and air temperature should be a minimum of 50 °F (10 °C) and rising, and 130°F, (54 °C) maximum 10.
- Do not apply on rainy, foggy, or extremely humid days, or when rain is in the forecast within 24 hours.
- If the pavement temperature is over 100 °F (38 °C), dampen the pavement with a fine mist of water to facilitate even spreading. Do not allow water to puddle on the surface.

APPLICATION TOOLS

Use conventional tools including brush, rubber squeegee or spray rig. Clean up using water. Do not discard washings in bodies of water or down sewer drains. Clean dried sealer on tools using wire brushing, scraping, and peeling.

INSTALLATION

ACTION PAVE[®] AE shall be applied in two coats in temperatures above 50°F. The first coat shall be a minimum of 0.08 – 0.10 gal/sq. yd and the second coat will be a minimum of 0.10 – 0.12 gal/sq. yd. The finished application will be a minimum of 0.18 gal/sq. yd. coating thickness based on undiluted material. Coat the edges of the area first to trim the area. Pour a continuous ribbon of Action Pave LP along the pavement edge 6 – 12 inches from curbing. Draw Action Pave LP mix away from the pavement edge by pulling a squeegee or brush perpendicular through the ribbon of material at a slight angle. Walk parallel to the pavement edge. Repeat the process in reverse direction, pulling the excess material toward the center of the pavement. Apply sealer over the remaining area using either a squeegee or a self-propelled machine that squeegees and brushes the sealer into the pores of the pavement. Allow the first coat to dry sufficiently to take light traffic scuffing. It will take 2-6 hours depending on drying conditions. After trimming for the second coat, use a machine with spray wand or spray bar apparatus that deposits the material according to the coverage rates recommended. The spray application will take out any squeegee marks and give a uniform appearance. The completed application shall be allowed to cure at least for 24 hours and then tested for trafficability prior to opening for regular use. Quantities of the material will vary according to porosity and texture of the pavement.

CURING TIME

Cure time will vary according to temperature and humidity at the time of application. Insufficiently cured films wear prematurely. Lower temperatures, high humidity and lack of direct sunlight will prolong the cure time. Higher temperatures, lower humidity and direct sunlight accelerate the cure process. If a second coat is to be applied, allow the first coat to dry sufficiently to withstand light vehicular and pedestrian traffic without damaging or scuffing the coating. After the application of the last coat, allow the coating to cure at least 20-24 hours under good drying conditions prior to opening to traffic.

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SPECIAL INSTRUCTIONS

ACTION PAVE[®] AE must be applied on structurally sound pavement surfaces. Apply only on unsealed asphalt or surfaces previously sealed with either Asphalt Emulsion, Refined Tar based Sealers or LP based sealers. Do not apply over surfaces sealed with gilsonite and other solvent-based sealers. New asphalt pavements must be allowed to cure at least 90 days in hot weather. Perform a water break free test to confirm that the surface oils have dissipated, by spreading water on the pavement. If the water does not bead, pavement is ready for sealcoating. Not recommended for steeply inclined surfaces, as they may become slippery when wet.

CAUTIONS

KEEP FROM FREEZING / KEEP OUT OF REACH OF CHILDREN

Keep stored containers sealed tightly.

Action Pave LP Pavement Sealers are not recommended for steeply sloped surfaces.

PACKAGING AND AVAILABILITY

Bulk sold by the gallon.

SAFETY PRECAUTIONS

It is essential that operations be conducted safely. All personnel need to be aware of hazards of using refined tar products. Before use, the crew should read and understand product use and safety information on the Safety Data Sheet. Safety precautions should include:

1. Personal protective clothing.
2. Careful operation of the application equipment.
3. Traffic and pedestrian control measures that meet or exceed MUTCD requirements.
4. Appropriate cleanup of excessive applications or product spills.
5. Safety Data Sheets.

WARRANTY

ACTION PAVE[®] AE is warranted by the manufacturer to meet specification requirements at time of shipment. Techniques used for pavement preparation prior to sealer application are beyond manufacturer control as are use and application of sealer; therefore, the manufacturer shall not be responsible for improperly applied or misused sealer. Remedies against the manufacturer are limited to replacing nonconforming product or refund (full or partial) of purchase price. All claims for breach of this warranty must be made within three (3) months of delivery date. There shall be no other warranties expressed or implied. **For optimum performance, follow recommendations for sealer installation.**