KATS 5500

Product Information Sheet

Product Description

KATS 5500 protects the finishes on vehicles, machinery, and parts from the damaging effects of acid rain, bird droppings, and other environmental hazards encountered during shipment and storage. KATS 5500's unique water-based, acrylic copolymer chemistry protects painted surfaces for up to 3 months. KATS coating is easy to apply with readily available, inexpensive spray equipment. Cleaning is quickly accomplished with any soapy water with some agitation.

Attributes

- Closed film, sprayable coating.
- Easy removal with soapy water and mild agitation.
- Environmentally-friendly formulation.
- Protects up to 3 months during transit and storage.
- Nonflammable.
- Non-offensive odor.
- Does not contain oil/petroleum.

Physical Properties and Technical Data

Finish ---------- White

Color (Virgin Product) ---------- Pastel Yellow

Wet Film Thickness ---------- 2 - 3 mil (50.8 - 76.2 microns)

Dry Film Thickness ---------- 0.3 - 0.5 mil (7.6 - 12.7 microns)

pH ---------- 6.0 - 8.0

Density ---------- 8.6-8.8 lb/gal (1.03-1.05 g/cm^3)

Viscosity (Brookfield @ 72°F, Spindle #4 @ 60 rpm) ---------- 200 - 700 cps

Flash Point ---------- None

VOC ---------- Trace

Freeze/Thaw Stability (ASTM D-2243) ---------- 0 Cycles

Iron Filings Resistance (GM 3.3.4) ---------- Pass – 100% Protection

Acid Rain & Bird Droppings Resistance (GM 3.3.3) ---------- Pass - 100% Protection

Humidity Resistance (GM 3.3.1) ---------- Pass - No loss of film integrity

Product Shelf Life ---------- 6 - 12 months stored at 45° - 85°F (7° - 29°C)

Application Considerations

KATS 5500 can be applied over:
Chrome Wheel, Painted Surfaces, Body Trim, Chrome, Aluminum, Plastic, Mirrors, Decals (Not recommended for bare steel surface.)
Note: Compatibility Test is recommended before implementation.

Surface Preparation:
Clean and Dry, Uncontaminated

Environmental Conditions for Application:

Ambient Temperature	45° - 100°F (7° - 38°C)
Surface Temperature	45° - 150°F (7° - 66°C)
Atmosphere	50% relative humidity or less

Recommended Safety Equipment:
Wear dust mask and other proper gear. (Refer to Material Safety Data Sheet for more information.)

Application Method:

Spray Gun	Conventional or HVLP
Air Pressure	40 - 60 psi (2.7 – 4.1 bar)
Fan Spray Pattern	10 - 12 in (25 - 30 cm)
Spray Distance	8 - 9 in (20 - 23 cm)
Dry Time	
Assisted	1 - 3 min
Unassisted at 77ºF (25ºC)	10 - 20 min @ 50% relative humidity or below 15 - 50 min @ 50% relative humidity or above
Typical Coverage	480 - 800 ft^2/gal (11.8 - 19.7 m^2/l)

Agitate the product within its container during spray operations.

Use only PVC or stainless steel (300 series) piping, fittings and suction tubes. Iron piping may cause rust contamination in coating.

Packaging

Container	Volume in Gallons	Volume in Liters
Tote	260	984.1
Drum	55	208.2
Pail	5	18.9

Store containers at a temperature between 45° - 85°F (7° - 29°C). DO NOT FREEZE.

Information

For more technical information or to place an order, please call:
800-699-6318 or 972-771-1000

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VEHICULAR APPLICATION INFORMATION AND INSTRUCTIONS
KATS 5500

Store product containers at a temperature between 45° to 85°F (7° - 29°C). DO NOT FREEZE. PREMIX BEFORE USING.

I. SPRAY OPERATION EQUIPMENT AND MAINTENANCE

A. The equipment listed below is recommended to efficiently spray transit coating onto a surface.
   1. An HVLP or Conventional type spray gun (All gun parts that become wet shall be made of water-resistant materials such as stainless steel.)
   2. A diaphragm or piston pump, if the product is in drums (The diaphragm pump is recommended.)
   3. 25 feet (7.5 meters) of fluid hose with an internal diameter (ID) of 3/8 inches (10 mm).
   4. Air hose of necessary length 25 ft (7.5 meters) and having an internal diameter (ID) of 5/16 inches (8 mm).
   5. An adequate amount of air and fluid filters.
   6. A sufficient number of regulators.
   7. A portable mixer for drum.

B. Recommended Spray Gun Settings
   1. Air Pressure: 40 - 60 psi (2.7 - 4.1 bar)
   2. Fluid Pressure: 5 - 7 psi (0.34 - 0.48 bar) for pressure pot
   3. Fluid Tip Size: 1.4 to 1.7 mm.

C. Spray Gun Maintenance
   1. When the spray gun is not in use, block the spray nozzle with some form of cover or tape to prevent the product from drying within the gun.
   2. If it becomes necessary to clean the nozzles of the spray gun, make a mixture of KATS transit coatings remover (KATS 8077) with water. To 1 part of remover, add 6 parts of water. Flush this mixture through the spray nozzles for 1 or more minutes until the nozzles appear clean. Lastly, flush the nozzles with clean water for another minute.

II. CONSIDERATIONS AND REQUIREMENTS BEFORE THE VEHICLE ENTERS THE SPRAY BOOTH

A. Make certain to completely inspect the exterior of the vehicle before the KATS transit coating is applied.
   1. The exterior of the vehicle should be clean.
   2. KATS 5500 is a water-based product and, therefore, the exterior of the vehicle should be dry for the product to properly function. If the product is applied over surface water droplets, then a complete, homogeneous coverage of the vehicle is not achievable.

B. The temperature of the vehicle's surface should be 45°F (7°C) or above when the coating is applied. There should be no ice or snow on the vehicle. If the ambient, outdoor or indoor, temperature is 32°F (0°C) or less, KATS transit coating will freeze and will no longer be usable. If the temperature of the vehicle's surface is less than 45° F (7° C) and the product is applied anyway, then the coating will become brittle and could possibly later flake off the surface.

C. Even though the transit coating is easily removable from glass, it is, nevertheless, recommended to cover the vehicle's front windshield area with a rubber mat before the coating is applied. (This mat should be periodically cleaned with soapy water while the spray operation is occurring. If this practice is not adhered to, then the product, while still wet, may run off the mat onto the vehicle to give an uneven film thickness.)

III. SPRAY PROCESS INSTRUCTIONS AND CONSIDERATIONS

A. Make certain that the operator keeps the air and fluid hoses in back of themselves to minimize interference from these hoses while spraying.

B. Ensure that the product is premixed. Run the portable mixer during spraying operation.

C. The distance between the spray gun and the surface should be set or held at a range of 8 to 9 inches (20 to 25 cm). Maintenance of this distance will ensure that the product will be applied with a uniform thickness over the surface.

D. Spray with an even, steady stroke; maintain the recommended spray distance by keeping the gun parallel to the surface at all times.

E. When spray operations are occurring in an assembly line environment, it is recommended that each of 2 people operate a spray gun and that each operator be responsible for spraying a particular half side of each vehicle (hood, roof, trunk, and side area, such as doors).

F. It is recommended that adequate ventilation systems be used when applying the product. Sufficient ventilation minimizes the incidence of overspray. The filter for this ventilation system should be made of paper or fiber.

G. Minimize back or high airflow in the spray application area. If these types of airflow occur, then the ability of the spray gun operators to evenly spray the vehicle's surface may diminish.

H. Maintain a continuous and consistent wet film without dry-spraying.

IV. RECOMMENDED CONDITIONS REQUIRED FOR FURTHER VEHICLE MOVEMENT THROUGH THE CONVECTION OVEN AFTER THE TRANSIT COATING HAS BEEN APPLIED

A. Multiple airflow vents should be spaced throughout the tunnel shaped convection oven so that the wet coating will dry faster.

B. If the temperature of the oven is maintained between 140° - 194° F (60° - 90°C), the applied coating will dry in 2 to 5 minutes. Temperatures cooler than 140°F (60°C) will require proportionately longer dry times.

V. FINAL TRANSIT COATING INSPECTION

After adequate dry time has passed, inspect the coating to make sure the film is continuous and homogeneous without coarse film caused by dry-spray; otherwise, performance is reduced. Those factors that inhibit proper film drying include water droplets, ambient temperatures below 45° F (7° C), and dirt or dust particles not cleaned off the vehicle's surface before the coating was applied. If problem areas are present, the coating may have to be removed and reapplied.

VI. REAPPLICATION

After a length of time passes and/or if some coating is torn due to harsh environment, it is recommended to remove and reapply the transit coating. This length of time is determined by and dependent on the environmental conditions under which the original coating had been exposed. Some sponge agitation is needed to remove the coating. Depending on the paint system, there may be some haze buildup, which can be taken off with detergent, window cleaner, or diluted Kwik Kleen Concentrate.
