

## 4082

### H.P. RUST PROTECTIVE COATING - LOW GLOSS BLACK

KATS 4082 is a high performance water based coating utilizing renewable resource base polymer technology that prevents rust and enhances appearance. It is modified to protect the surface with a thin build. It is suitable for use on both ferrous and nonferrous metals.

KATS 4082 is mainly designed for pallet dip application where dry time is not critical, but can be sprayed through HVLP/Conventional spray applicator.

The surfaces to be protected should be clean and dry. Apply KATS 4082 in a good ventilated area without excessive wind. Before using, review MSDS and wear proper gear.

Ambient/Surface temperature..... 45° - 100°F (7° - 38°C)

Ideal Surface Temperature ..... 60° - 80°F (16° - 27°C)

Note: Insure the coating is dry before exposing to the elements. To minimize temperature/humidity variables, heated force drying is recommended to improve early water resistance.

Wet Film Thickness ... 5 mil (127 microns)

Dry Film thickness ..... 1.0 mil (25.4 microns)

Typical coverage..... 320 ft<sup>2</sup>/gal (7.9 m<sup>2</sup>/l)

Mix before using and do not allow fluid to freeze. Do not need to mix continuously in high speed, but may need to periodically if some settlement is noticed.

If not being used, cover the container/dip tank well to retain product's integrity and stability.

Ideal storage condition:..... 45° - 85°F (7° - 29°C)

#### BENEFITS:

- 0.5 lb/gal (60 grams per liter) VOC
- Water based
- Covers light rust
- Protects up to 12 months
- No fire hazard
- HAPs-free
- Excellent adhesion to various surfaces
- Environmentally safe

#### APPLICATIONS:

KATS 4082 has been designed specially for protection of leaf springs and similar metal surfaces, but it is suitable for use on a wide variety of metal stock and finished goods.

*For application instruction, see reverse side.*

TEST METHOD	DESCRIPTION	TYPICAL CHARACTERISTIC
ASTM B-117	Salt Spray Test (200 hr)	Pass
ASTM D-2247	Humidity Test 100% R.H. @ 100°F, 500 hr	Pass
ASTM D-3359	Adhesion (B1000)	5A
ASTM D-2196	Brookfield Viscometer Spindle #4 @ 72°F (22°C) and 60 RPM, cps	1000 - 1500 cps
ASTM D-1475	Density	9.0 lb/gal (1.08 g/cm <sup>3</sup> )

*The above are average values. Minor variations which do not affect product performance are to be expected in normal manufacturing.*

#### PACKAGING

260 Gallon Totes	55 Gallon Drums	5 Gallon Pails
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## Application Instruction

### A. Mixing Requirement And Time Assessment:

1. Mix about 30 minutes at slow speed. If too high where it creates a lot of splashing, mix for about 5-10 minutes.
2. Turn the mixer off. Using panel/small spring part, dip the part and let it dry. If the appearance is:  
Low Gloss -- stop mixing and transfer to dip tank  
Higher Gloss Than Normal - repeat #1 and #2

See note below.

3. Start operation (transferring/dipping) without mixing for 6-8 hours. Initially, check panels to insure the gloss is correct every 2 hours and do as prescribed on #2 above.

Note<sup>1</sup>: The surrounding and liquid temperature can impact the speed of phase separation, but in normal at 72°F, dipping can be done without additional mixing for about 6-8 hours, assuming continuous dipping is in place. To check whether it needs to mix during operation is to do step #2.

Note<sup>2</sup>: Although the mixing time will be depending on the customer's environment situation and vary place to place, upon having few checks, the mixing time can be fine tuned and implement in daily operation without running the test.

Note<sup>3</sup>: The product must be used as is to insure performance and appearance.

Important: Extraneous mixing can reverse the stability of the suspended pigment where it breaks additive bond and can potentially give hard settlement, which is irreversible. Ideally, continuous low speed pedal with horizontal movement is recommended.

### B. Drying Requirement

There are a few ways to improve drying time: warmed parts, heat with air movement, air movement, low humidity.