

**AK8™**

## Electrochemical Rust Converting Latex Primer

### SELECTION DATA

#### DESCRIPTION:

**AK8** is a unique two step electrochemical process that converts rust, then forms a black coating that can either be primed with a rust preventive primer or top coated. This method of corrosion control keeps the rust from coming back where the old rust had formed.

#### USE:

**AK8** may be used on any steel surface where removal of rust by sandblasting or mechanical methods may not be practical. Works especially good on galvanized steel surfaces where the zinc has oxidized away.

#### ADVANTAGES:

- Changes rust on iron or steel into a new black coat that aids in the prevention of further corrosion.
- Two step chemical process.
- Will not leave an acid residue behind that has the potential of damaging the topcoat or promoting additional rust.
- Does not require any rinsing after application.
- Will not discolor or acid burn poster paper.

#### LIMITATIONS:

- For long lasting corrosion protection, **AK8** must be topcoated.
- Can not be topcoated directly with a other water-base coating due to bleeding.
- Topcoating can only be accomplished by directly applying an oil based coating or an oil based intermediate prior to topcoating with a waterbase coating.

### PHYSICAL PROPERTIES

**VOC:** [as packaged] ..... 107 g/l – (0.89 lbs./gal.)

**APPEARANCE:** [Gloss at 60°]

Flat ..... 7 – 15

**WEIGHT PER GALLON:** [average] ..... 8.8 lbs.

**FLASH POINT:** [setaflash] ..... >240° F.

**PACKAGE VISCOSITY:** ..... 34 KU

**SOLIDS:** [average]

By Weight ..... 23%

By Volume ..... 20%

**COVERAGE:** [average]

Theoretical at 1 mil DFT ..... 320 sq.ft./gal.

Theoretical at 1.5 mils DFT ..... 213 sq.ft./gal.

Recommended DFT per coat ..... 1.5 mils

**DRY SCHEDULE:** [at 50% RH and 1.25 mil DFT]

	50° F.	65° F.	80° F.	95° F.
<i>Tack dry</i>	1 hrs;	30 mins;	10 mins;	5 mins;
<i>To Touch</i>	2 hrs;	1 hrs;	20 mins;	10 mins;
<i>Recoat</i>	4 hrs;	1 hrs;	30 mins;	20 mins;
<i>Topcoat</i>	36 hrs;	24 hrs;	16 hrs;	12 hrs;

#### COLOR AVAILABILITY:

980P is available in white only which turns black upon conversion

**ORDER CODE:** ..... 980P

#### PACKAGING:

Ten ea. 1 quart bottles per case ..... 22 lbs.

Four ea. 1 gallon bottles per case ..... 40 lbs.

One ea. 5 gallon plastic pail ..... 47 lbs.

Continued 

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**AK8™**

## Electrochemical Reduction Rust Converting Latex Primer

**APPLICATION DATA****SURFACE PREPARATION:**

**Old Steel:** All traces of flaky rust must be removed.

Oil, grease, poster paper and paste, old paint, mill scale, fingerprints and water soluble sulfates and chlorides must be removed. Manual wire brushing, chipping, scraping, emery paper or rotopeening can be used. Dry abrasive blasting or hydroblasting can be used for large areas. Old paint can also be removed with chemical strippers followed by degreasing. Oil, grease and fingerprints should be removed BEFORE the loose rust with chemical degreasers, using clean rags for the final wiping or use wet steam detergent cleaning. Some chipping, hydroblasting or needle gun cleaning may be necessary in areas of severe pitting.

**New Steel:** New steel is defined as steel where corrosion has started in spots (e.g., cold rolled steel after storage) and where mill scale is absent. The entire surface should first be thoroughly degreased. The steel should then be allowed to stand for 1 – 2 days in normal or high humidity to initiate flash-rusting which will be indicated by a color change.

**Galvanized Steel:** Damaged or spent galvanizing should be treated with AK8 after removal of the soluble, white crystals and loose rust from damaged areas by one of the methods described above.

**NOTE:** AK8 does not undergo proper conversion unless some rust is present at least on a microscopic scale. It will not provide good protection on bright steel or steel sandblasted to a gray or white color. If this condition is present, wash with water and let stand until a slight brown color appears.

**RECOMMENDED THINNING:**

*Do not thin* with water or any other solvent.

**APPLICATION:**

This product may be applied by mitt, brush, roller, air sprayer or airless sprayer.

**Brush or Roller** is suitable for small to moderate sized areas. Use a coarse bristle brush or a roller with a short nap to prevent runs. Do not disturb coating once black color starts to appear. Do not use iron or steel application tools. Use plastic buckets and wood stirrers. Roller stems should at least be galvanized. Do not pour unused material from the painting bucket or roller tray

back into the original container since this will cause it to darken on storage.

**Mitt:** is the preferred application method. Do not pour unused material from the painting bucket or roller tray back into the original container since this will cause it to darken on storage.

**Airless Spray** application is recommended for larger areas. Airless spray equipment is faster, provides more effective conversion due to improved surface penetration and thicker films per pass and involves less wastage and cleanup due to reduced overspray. Use carbide fluid tip size .013 – .015 @ 2500 psi.

**RECOMMENDED TOPCOAT:**

For the proper rust proof protection **AK8** must have an intermediate solvent reducible primer applied. **AK8** must be completely dry before top coating. Use Danacolors D525 for poster panels and on miscellaneous steel use Bakote Primer 903P, Envirotech 902P, or Tripoxy 941P series primers. Topcoating with a water reducible coating is not recommended. The following list suggests topcoats that may be used:

**One-Component:** Acrylics, alkyd based enamels, epoxy esters and vinyls.

**Two Component:** Epoxy polyamides and polyurethanes.

**CLEANUP SOLVENT:** ..... Water  
Use lacquer thinner to remove dried **AK8** from equipment and clothes.

**SAFETY AND HANDLING**

**FLASH POINT:** [setaflash]..... >240° F. – (115.5° C.)

**SHIPPING DESCRIPTION:** [CFR 49]

**Ground/Air/Vessel:** ..... Not regulated

**IMDG PACKAGING & STOWAGE:** .... Not regulated

**UNIFORM FIRE CODE:** [CFR 29] ..... Non combustible

**STORAGE TEMPERATURE:** ..... 35° F. – 120° F.

**Keep Water Base Products From Freezing!**

**SHELF LIFE:** [warranted]..... 1 Year

**“HMIS” RATINGS:** ..... H - 1; F - 0; R - 0; PP - H

(02/22/99)

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