



**KTA-TATOR, INC.**  
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PROTECTIVE COATINGS (PAINT) CONSULTANTS: Testing - Instruments - Inspection - Analytical Laboratory

November 22, 1995

Jim Johnson  
Chlor\*Rid International Inc.  
P.O. Box 908  
2131 N. Longmore Street  
Chandler, A7, 85224

**SUBJECT: Investigation of the Effect of Chlor\*Rid on  
Removing Chloride and Sulfate Contamination**

Dear Mr. Johnson:

In accordance with your authorization of October 30, 1995 and our quotations of October 11 and 19, 1995, KTA-Tator, Inc. has completed a study to evaluate the effect of Chlor\*Rid for removing chloride and sulfate from rusted steel panels.

### SUMMARY

Abrasive blasted 4" X 6" steel panels were corroded by modified salt fog exposure (5% sodium chloride, NaCl, 2% sodium sulfate, Na<sub>2</sub>SO<sub>4</sub>) for 144 hours. Panels were removed, dried, and abrasive blasted to 2 mil profile with a mixture of aluminum oxide and coal slag abrasive. Following abrasive blasting, the panels were divided into three groups as follows:

- For extraction with water (as a control):
- For water blasting at 3000 psi, followed by extraction with water:
- For water blasting at 3000 psi with 1% Chlor\*Rid, followed by extraction with water.

Analytical results for chloride and sulfate concentration are summarized below.

Group	Chloride Concentration micrograms/sq.cm	Sulfate Concentration micrograms/sq.cm	Comments
Control	9.6	0.5±0.3	No waster blasting
Water Blast	6.4	0.2±0.1	City Water
Chlor*Rid	2.8	0.2±0.1	1% in City Water