

Versa Cold Cold Storage Facility

Matsqui 2002

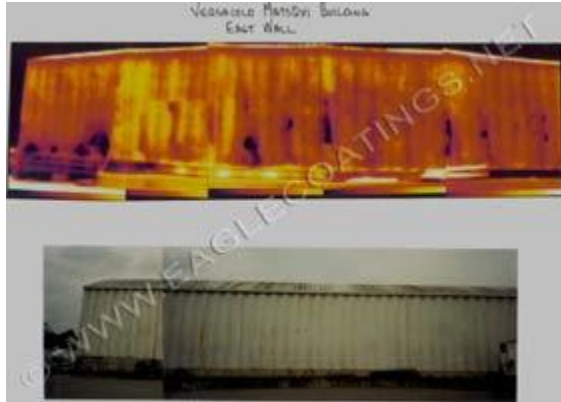
[RUSTGRIP](#)® primer and [SUPERTHERM](#)® top coat



These infrared scans taken prior to the application of a primer coat of [RUSTGRIP](#)® and a combined base coat and top coat of [SUPERTHERM](#)® show black spots where the insulation has totally failed due to moisture. There is so much moisture in the insulation that it actually has a NEGATIVE R value and is now conducting heat instead of resisting heat (Water is a better conductor than resistor). This increased the problems inherent in all metal substrates being conduction, condensation and corrosion.

This caused the existing paint to crack and peel. It would have been extremely beneficial to have been given these scans prior to commencing this project. Unfortunately they were not revealed until after the project was completed.

Because of the extreme condensation on this substrate, a base coat of [EPOXOTHERM](#)® should have been applied over the [RUSTGRIP](#)® and then top coated with [SUPERTHERM](#)®. These scans also would have identified areas were a higher build of the [EPOXOTHERM](#)® / [SUPERTHERM](#)® system was required.



High pressure water blast with 5000 psi and turbo nozzle. Bottom half prepped to a clean, dry and sound substrate ready to accept a coating system



Quality assurance tested with a wet mil gauge to ensure that the required thickness of 7 mils WFT per coat has been applied



This finished system of 7 mils DFT applied in two coats, cross-hatched, provides

adequate insulation and is non - deteriorating due to being impervious to moisture for at least 10 years.



Note the TEMPERATURE SCALES on the side of each of the scans located below. The temperature range of the scan taken BEFORE the coating system was applied is from 18.2°C - 25.1°C (64.76°F - 77.18°F). The temperature range of the scan taken AFTER the coating system was applied is from 20.9°C - 35.6°C (69.62°F - 96.08°F). The adjustment was required because of the much higher ambient temperature on the day the AFTER coating scan was taken.

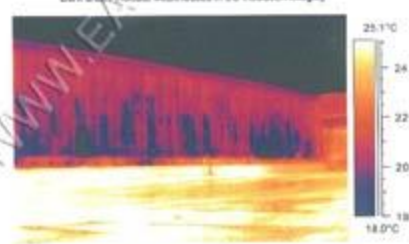
BEFORE 05/17/2002 Interior-20°C Exterior 23°C AFTER 05/30/2003 Interior-20°C Exterior 31°C

Survey Date: July 17, 2003
 Time: 11:00:00 AM

Client:	Nyrasa Gold
Site Location:	Matsigui Plant
Electrometer:	Tom Brent

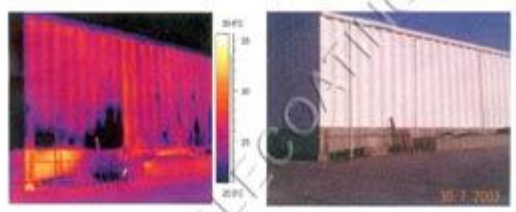


Building Envelope
 Dark areas indicate weaknesses in the insulation integrity

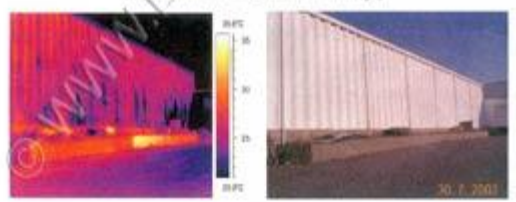


Survey Date: July 30, 2003
 Time: 7:54:00 AM

Client:	Nyrasa Gold
Site Location:	Matsigui Plant
Electrometer:	Tom Brent



Building Envelope
 Dark areas indicate weaknesses in the insulation integrity



Click on Photo Scans to Enlarge

Note: Also at the same time that we were doing the worst wall (East wall) a coat of elastomeric was applied by another company to one test panel on a far less challenging area of the South wall. Now less than two years later it is already delaminating, cracking and peeling. The **SUPERTHERM**® is still fully bonded and looks like new in addition to providing ongoing Thermal protection.