



16 April 2001

### **Paramount Pictures Corp. Project:**

**Roof Location:** Back lot where office units H 11, 12 & 13 are located. Trailers fitted together for office pods.

**Roof Condition:** Trailers are covered with cap sheet and over coated with a silver metalized coating. Roof surfaces are dried out and have a noticeable crunch when walking over the surface. The silver coating is absorbing heat and accelerating the drying out of the roofing substrate.

### **Participants:**

- a. **Super Therm®** by Superior Products International II, Inc. (SPI)
- b. Liquid China by Evercrete Creto International Inc.
- c. AcryshieldA55O acrylic coating by National Coatings COT.

All were invited to visit the site to understand the conditions and propose their applications.

### **Procedures:**

We visited the site and determined that the edges of the roof were dried and deteriorating. This needed immediate attention in the application process to secure and seal.

a. We applied a coat of **Super Base®** (HS) then laid a 6" width polyester mesh into the BASE to provide strength and secure the edging. Then the **Super Base®** (HS) was applied over the roof to seal the silver coating that was cracking and dried out. The **Super Base®** (HS) allows itself to be absorbed and stabilize the roof surface. This base coat does not have ceramics. It is used to fill and seal the cracks and stabilize The Cap Sheet material leached resin into the BASE material without harm to its function.

b. The following day, **Super Therm®** was applied to provide the ceramic insulation. Upon inspection the next day, we noticed that the dew buildup had yellow pools, which was caused by the smog settling into the water. This was not resin leach but acid rain residue that will deteriorate roofing materials, car finishes, etc. and create shorter life spans for the roofing system.

c. We decided to apply the **Enamo Grip®** W/B top finish coat, which is a urethane blend to give toughness and resist acid rain pools and smog pollution over the life of the system. This seal coat does not have ceramics. Johnson Controls, an energy performance company, uses this product to top off their roofing systems. The **Enamo Grip®** W/B gives the finished system a non-slip, gloss surface that easily rain washes itself to extend the service life of the roof coating system.





**Observations:**

We spent from Friday morning until Monday morning making sure the system was applied correctly and the roof received the appropriate system for its condition. During this time, we did not see any representatives from either of the other invited companies appear on the job site to check for quality assurances or job performance.

**Initial Testing:**

Monday - April 16th

We went to Paramount before leaving for the airport to take some final readings of all the coatings in order to see what kind of performance could be measured after all the systems were installed.

**Time:** 9:30am

**Ambient Temperature:** 76.3 degrees F

The coating was penetrated to insert a probe to test the temperature directly under the coating film as it lay on top of the cap sheet substrate.

**Machine:** Fluke 5411 Thermometer - dual probe unit

Directly under the **Super Therm®**, the reading was: 56.9 degrees F

Directly under the China Coat, the reading was: 65.6 degrees F

Mark Bauserman of Paramount came onto the China Coat roof while we were reading the gauge. After making the readings, Mark and SPI went to the office to read the computer readings. Even though the readings were fluctuating back and forth, the readings on the underside of the **Super Therm®** coating read identical to our physical reading 10 minutes before. This verified the accuracy of the reading. A reading was not taken on the Acrylic coating because we had tested this coating on the roof of the other building and made a 40% variation in calculated energy savings over this coating. This produced a 6 - 7 degree less temperature reading on the interior of the box itself which relates to a 39% - 40% savings in energy consumption as reported by Con Edison.

**Additional Note:**

**Super Therm®** will not completely cure for 10-14 days. When it does fully cure, the performance will increase from the initial readings. This was the case in the North Carolina sound testing and other sound testing performed. Once the moisture is completely out, the ceramics settle into a tightly packed plating that completes its efficiency factor.

For more info on SPI Products, please send us an email at [info@nvenergysolutions.com](mailto:info@nvenergysolutions.com).  
SPI products are manufactured by SPI in the USA in Shawnee, Kansas.

