



Tennessee Technological University
 College of Engineering - Department of Chemical Engineering
 Box 5013 - Cookeville, TN 38505 - 615-372-3297

(Original)

January 23, 1989

Superior Products of Kan-Tex, Inc.
 PO Box 2357
 Salina, KS 67402-2357
 Attn: Mr. Pritchard

Dear Mr. Pritchard,

I'm sorry you weren't able to attend the reflective coating meeting at Tenn Tech. Perhaps next time. Emittance measurements were made in December on the samples you prepared.

The results are as follows.

SCALE: 0 (poor) - 1.00 (excellent) *

<u>Material</u>	<u>Average Emittance (5 measurements)</u>	<u>Std. Deviation</u>
1. Galvanized <i>(bare metal)</i> Metal	0.046	0.002
** 2. Thermo Shield over Rust Shield over Metal	0.901	0.010
3. Thermo Shield over gray layer, over rubber, or Rust Shield over metal	0.872	0.004
4. Round disk		
a) Water Shield Side	0.883	0.003
b) Thermo Shield Paint Side	0.874	0.011

The differences in emittance between 2,3,4a, and 4b are not significant. The high emittance (around 0.9) is a desirable property for exterior surfaces in the summer.

Sincerely,

David W. Yarbrough

David W. Yarbrough, Chairman
 Department of Chemical Engineering

* Explanation Added To DOCUMENT
 ** Product name changed to SUPER THERM

MAR 20 1995

TEST RESULTS - SUPER THERM III

(TEST TYPE)

(RESULTS)

TEST	SUPER THEM III
Dry Time	15-20 min.
Viscosity <i>thickness</i>	128 K.U. (on heavy side)
Gloss (20°/60°) <i>high gloss for equipment</i>	1.5/2.2 <i>100% max gloss</i>
Brushability	Fair → Good (with some brush marks)
Adhesion	
- Vinyl	5 <i>0 → 5 MAX. Adhesion Best</i>
- Wood	5
- Steel	5
- Concrete	
WB Tremclad	
- Painted	5
- Unpainted	5
Pencil Hardness <i>Hardness based on comparison to lead.</i>	<3B
Heat Resistance @ 1000°F	No change in colour, no failure
Flexibility	Pass
Impact Resistance	
- Direct	80 in.lb.
- Reverse	80 in.lb.
Corrosion Resistance	10 days salt spray exposure
Surface	100% surface rust
Under	100% under rust <i>Pass Watering permits Vapor to show</i>
Xenon (20°/60°) <i>Weather climatic (Passer)</i>	1.6/2.3

0
1,000 hours