TEMPERATURE DIFFERENCE TESTING FOR SUPERIOR PRODUCTS INTERNATIONAL ON HOT PIPE COATING BATCH 062303 VTEC #100-1787 TESTED: OCTOBER 10, 2003



VTEC Laboratories Inc.

Cctober 10, 2003

Client:

Superior Products International

10835 West 78th street Shawnee, Kansas 66214

Attn:

J.E. Pritchett

Subject: Determine the Temperature Difference of Various

Thickness of Hot Pipe Coating Batch 062303 on Steel

Substrate Using a Hot Plate.

Procedure:

VTEC Laboratories Inc. prepared specimens using Hot Pipe Coating Batch 062303 provided by Superior Products International II. Inc. The Hot Pipe Coating Batch 062303 was applied at various thicknesses to 11 gauge steel substrates. The prepared specimens were tested for temperature difference using a hot clate.

The specimens were placed on the hot plate with the steel side exposed to the hot plate. A thermocouple was placed between the not plate and the steel to measure hot face temperature. Another thermocouple was placed on the unexposed side of the Hot Fipe Coating Batch 062303 to measure cold face temperature. This thermocouple was kept in place using an aluminum tape, which also covered the tip to produce more accurate cold face temperature.

The temperature of the hot plate was adjusted to various temperatures and the hot and cold face temperatures were recorded when a steady state was reached. The edges of the specimens were insulated with 1" thick by 2" wide ceramic insulation blanket to prevent lateral heat loss.

DISCLARMER: Fig. is a factual report of the results obtained from the laboratory text of sample in the transfer may be applied only to the products board and should not be constrosed as the state of the similar products of the manufactures. The report is not a recommendation or a special content of the manufactures is constrosed by the product of the supplied of t scatteing product acceptance. It may not be used in advertising.

RESULTS :

PRODUCT: Hot Pipe Coating Batch 062303 on 11 Gauge Steel 4"x4"

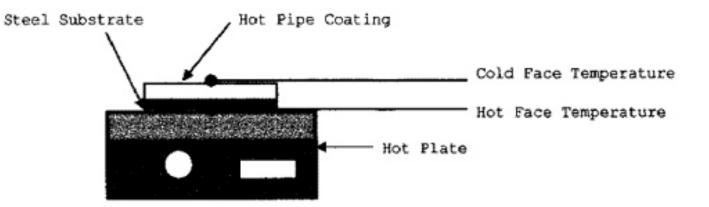
HOT PIPE	Nominal Hot Plate Temperature (Deg. F):								
COATING	200	300	400	500	600	700	800	900	1000
BATCH 062303									
Thickness	Cold Face Temperature (Deg. F)								
(mils.)									
50	154	203	296			•		•	-
100	123	168	262	315		-			٠.
250	147	163	204	254	304	343		•	-
400	120	144	181	232	271	321	•	•	٠.
500	118	146	179	194	234	257		•	
600		96	119	146	169	196	223	-	-
700		-	95	116	130	158	201	240	
800				107	124	170	182	216	23
1000		-		-	81	96	117	142	16

Neil Schultz

Executive Director

Amirudin Rahim Technical Director

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SUPERIOR PRODUCTS INTERNATIONAL - HOT PIPE COATING TEST SET-UP

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