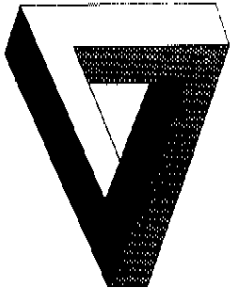


TEMPERATURE DIFFERENCE TESTING
FOR
SUPERIOR PRODUCTS INTERNATIONAL
ON
HOT PIPE COATING BATCH 062303
VTEC #100-1787
TESTED: OCTOBER 10, 2003



VTEC Laboratories Inc.

October 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 plate.

The specimens were placed on the hot plate with the steel side exposed to the hot plate. A thermocouple was placed between the hot plate and the steel to measure hot face temperature. Another thermocouple was placed on the unexposed side of the Hot Pipe 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.

DISCLAIMER: This is a factual report of the results obtained from the laboratory test of sample provided. The results may be applied only to the products tested and should not be construed as applicable to other similar products of the manufacturer. The report is not a recommendation or representation by VTEC Laboratories Inc. of the material tested. While this report may be used to facilitate product acceptance, it may not be used in advertising.


RESULTS:

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

HOT PIPE COATING BATCH 062303 Thickness (mils.)	<u>Nominal Hot Plate Temperature (Deg. F):</u>								
	200	300	400	500	600	700	800	900	1000
	<u>Cold Face Temperature (Deg. F)</u>								
50	154	203	296	-	-	-	-	-	-
100	123	168	262	315	-	-	-	-	-
250	147	163	204	254	304	343	-	-	-
400	120	144	181	232	271	321	-	-	-
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	232
1000	-	-	-	-	81	96	117	142	163

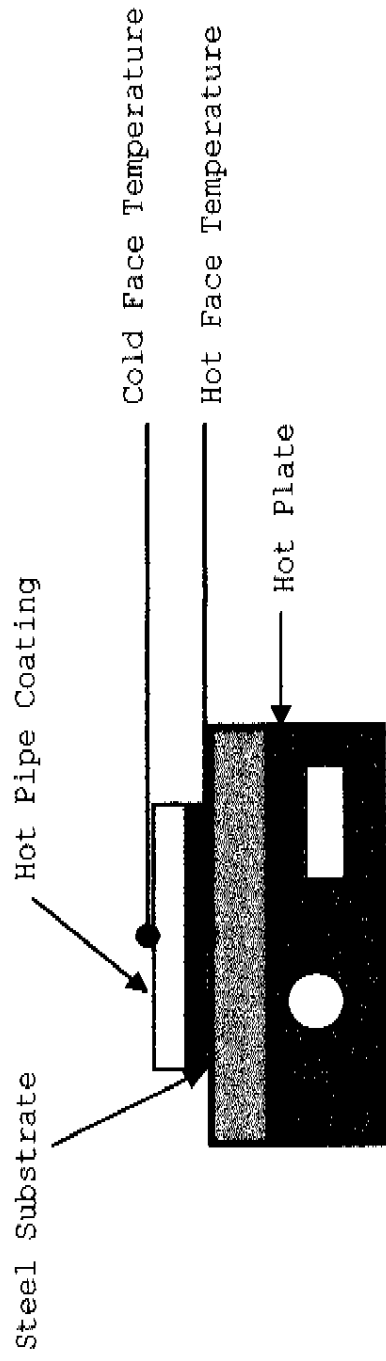


 Neil Schultz
 Executive Director



 Amirudin Rahim
 Technical Director

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SUPERIOR PRODUCTS INTERNATIONAL - HOT PIPE COATING TEST SET-UP