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TECHNICAL REPORT NO. 167

Investigation No. 1 - Progress Report No. 1

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COMPETITIVE JOINT CEMENT PRODUCTS

Introduction:

Drywall joint cements are shipped as powders that are mixed with water by the applicator and as pastes that are pre-mixed with water by the joint cement manufacturer.

Sampling:

The products included in this investigation are competitive products that are said to be equal or superior to the G-P products in their respective market areas.

Testing:

Each product was subjected to the battery of tests that we use in all new formulation work.

Conclusions:

The overall performance of the two G-P products tested can be judged as competitive with competition. All of the products tested gave

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some indication of not being competitive in certain categories. The following tables indicate what these weaknesses are in direct comparison to the other products. It should be noted that in the tables, sanding is noted as a number. The higher the number, the easier the product is to sand.

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BAG PRODUCTS	U.S.G. N.V. Topping	G-P Vinyl Topping
Location	Columbus	Chicago
T.C.	65	53
Bonds: Room (70°F 50% RH) Humid (95°F 90% RH) Cold (40°F 75% RH)	 100% 20% 100%	 100% 100% 100%
Corner Bead Bond	Good	Good
Contains Asbestos	No	No
Filler	Limestone	Limestone
Sanding	79	103
Open Time	30-35 mins.	35 mins.
Water Resistance	OK	Good
Cracking	Excellent	Excellent
Adhesive	Vinyl	Vinyl
Working Properties	Very good	Very good
Comments	Not as smooth as G-P product	

READY MIX PRODUCTS	U.S.G All Purpose Ready Mix	Gold Bond All Purpose Ready Mix	G-P Ready Mix		Kaiser Pre-Mix Topping	U.S.G. Covercoat
Location	Chicago	Baltimore	Chicago		Baltimore	Chicago
Viscosity	790	650	620		Off scale	630
Bonds:						
Room (70°F 50% RH)	100%	100%	100%		100%	100%
Humid (95°F 90% RH)	75%	80%	100%		60%	100%
Cold (40°F 75% RH)	50%	40%	100%		50%	100%
Corner Bead Bond	OK	OK	OK		Poor	OK
Contains Asbestos	Yes	No	Yes		No	Yes
Water Resistance	OK	OK	OK		Good	OK
Filler	Limestone	Limestone	Limestone		Limestone	Limestone
Sanding	40	71	37		59	34
Open Time	40 mins.	30 mins.	50 mins.		35 mins.	45 mins.
Density Lbs./Gal.	12.75	13.00	12.96		13.85	13.12
Cracking	Good	OK	Fair		OK	OK
Working Properties	Very good	Excellent	Very good		Good	Very good
Comments					Pockmarks	
Unusual Characteristics		Contains Kaolin Clay			Contains Diatomaceous Earth	Pigmented to increase whiteness

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