

1958 NO ADEQUATE REPLY
FOR LEAD IN EXT HP
EVEN THO IT COULD SAVE 100-2
OF \$ AS WELL AS SAFETY -

Cleveland, Ohio

December 5, 1958

Mr. E. Schulte

HOUSE PAINT PRIMERS
BLISTER BOX TESTS

cc: Mr. E. S. Hayward
Mr. A. E. Gilchrist
✓ Mr. P. C. Harzog

We are reporting the results of the following systems which have been tested on our blister box.

(1) Y-1851 - Y-1800	2 tiny blisters
(2) Y-1851 - Y-2750	No blisters
(3) 2 coats Red Spot (Buckman formula using Susan 11)	Completely blistered
(4) 2 coats GL-64260 Blister Resistant House Paint	Blistered in one section of panel.
(5) 11-W-17-E - Y-1800	Few tiny blisters
(6) 11-W-17-E - Y-1800	No blisters
(7) GP-1025 - Y-1800 (Genl. Ft. Primer)	10 small blisters
(8) Y-5051 - Y-1800 XERN (Professional Primer)	10 small blisters

The 11-W-17-E represents the following changes from Y-1851-E: W-208 raised 1 ounce to 1 1/2 13 ounces; W-104 lowered 9 ounces to 3 1/2 13 ounces; W-16 raised 4 ounces to 2 1/2. This produces a savings of 8 cents per gallon and allows the addition of a fungicidal agent without raising the cost. At equal mercury content we can save 1.3 cents per gallon by using CH-328 instead of VM-659 (Super Adit).

Our tests show no effect upon blistering when using 1 ounce per gallon of CH-328. Our recommendation is to use a liquid ounce of CH-328 at the cost of 4.7 cents per gallon. At equal mercury content VM-659 will cost 6 cents per gallon. We can also consider adding 6 cents worth of CH-328 and hope to improve mildew resistance. Mr. Gilchrist has the samples of 11-W-17-E comparing VM-659 and CH-328 at these various levels mentioned for mildew resistance.

We believe the reason for the poor blister resistance of both Red Spot and GL-64260 is because it takes more than a week's aging before these formulas are hard enough to develop good blister resistance. GL-64260 is an alkyl formula and shows better blister resistance than the straight oil formula of Red Spot.

In conclusion we believe that the reduction of lead carbonate and the addition of a mildewicide will not affect our blister resistance or our durability. It will provide a much better primer for under Endurance Velvet or Latex House Paint.

J. E. Southwick

JES/lms