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PRODUCT DEVELOPMENT REPORT  
COATINGS AND RESINS GROUP LABORATORIES

FEBRUARY, 1967

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GLD006813

February, 1967

Physical Properties - (Continued)

Weight per gallon - 11.3#  
Lead Content - Less than 1%  
Consistency (Stormer) - 78-85 KU  
Color - Natural White (Unblued)

Application

Brush: Full Body  
Spray: Reduced 20% with VM-P Naphtha

J. Bednarik  
J. Southwick

Lustre Modification

We will issue new formulas for the Spred Lustre line (Y-4600-W) on March 1. They are being held for the new codes. Changes are higher PVC - VM-955 - and flat wall resin content. This further insures greater viscosity, flow control and gloss stability under varying production procedures.

The latest Lustre line formulas include a basic change:

Remove 3.5 gallons V-863-A and 1.0 gallons S-340  
Add 4.0 gallons V-895, 1.0# VM-955, and 13.0# W-154

This insures better gloss control, flow control and raises the viscosity 3-5 KU.

These changes will stabilize product quality for Cowles or pebble mill production. This also will allow the use of RCR-6240 in place of standard V-895.

We are also including the addition of 0.5# M-486 to the initial letdown step and 1.0# VM-523 to the final letdown. This is based on the successful use of this puffing agent in Craftsman S.G. Y-6650.

The M-486 will yield an additional 3-5 KU and accompanying flow control-application improvement.

J. Bednarik  
J. Southwick

Y-1892 Modification for Improved Dispersibility

The Cleveland Plant has reported low viscosities in all but one of their last five productions of Y-1892-G. They also reported difficulty in obtaining the proper dispersion.

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An evaluation of the grinding difficulties showed that the leaded zinc oxide, W-452, is causing the trouble. This pigment will disperse quite readily when it is fresh. Apparently as the pigment ages it becomes more difficult to disperse.

Replacing the 12% leaded zinc oxide W-452 with zinc oxide W-533 will correct both of the above problems. The W-533 has an oil demand approximately double that of W-452. This will raise the viscosity by at least 5 KU. Also W-533 is readily dispersible in the Cowles. However, W-533 seems to increase the flow of Y-1892-G and three pounds of Bentone 38 had to be added to correct this problem. A batch of this new formula will be made in the Cleveland Plant prior to issuing the formula.

W. Green  
R. Ruzicka  
J. Southwick