

MONTHLY HIGHLIGHT REPORT - DECEMBER 1971
RESEARCH & DEVELOPMENT DEPARTMENT
INDUSTRIAL PRODUCTS DIVISION

SECRET - COMPANY CONFIDENTIAL

PLAINTIFF'S
EXHIBIT
GF-1431

I. INDUSTRIAL PRODUCTS (South Bound Brook)

A. FELTS AND PAPERS

A repeat order from McCord Corp. for acrylonitrile asbestos gasketing was satisfactorily filled in a plant run. A series of samples with this polymer binder was treated at the Newburgh plant with a Teflon coating and they have been submitted to McCord for evaluation.

B. AUTOMOTIVE

Molded Mastic

Wheelhouse cover production is proceeding successfully with favorable reports from the field. Work is now concentrating on the elimination of the polyethylene sheets which are used as release media between parts in the cartons. Formulation studies are also being made to improve low temperature physical properties.

Carpet Underlayment

A mastic laminant using a fire retardant urethane foam in place of jute successfully passed the GM heat and fire resistance specifications for carpet sound-deadening underlayment. Samples of this combination will be submitted to Fisher Body for their approval.

Rust Preventive Mastic

The sound-attenuating and rust preventative mastic membrane designed to conform and bond to the floor plan during the paint bake cycle has been given a favorable initial rating in tests by Fisher Body and Ford. Work is now underway to improve stain resistance and anti-blocking properties by use of a film bonded to the top surface.

II. MINERAL PRODUCTS

A. RAW MATERIALS AND NEW FORMULATIONS

A trial conducted at Charmian using air-floated clay for the standard material produced a satisfactory white granule with a potential annual savings of \$17,000. More extended runs are planned to verify this result.

A review of test panels exposed in Hagerstown and South Bound Brook show no apparent weathering differences between the present silicone after-treatment and the stearic acid - $AlCl_3$ modified system after 15 months weathering. Test roofs containing appropriate controls have been applied on homes in South Bound Brook, Charleston, W. Va., and Hagerstown areas to further establish weathering performance of the new after-treatment. Granules with the new treatment must behave the same as the regular product, particularly from a sooting standpoint, so that no differences in color will result by mixture of shingle products produced with both type granules.

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