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Marshall Laboratory
November 13, 1952

MEMORANDUM REPORT NO. M-520

PREPARED BY - H. G. STAUFFER

VISIT TO AMERICAN CYANAMID CO.

On October 23 the writer visited the New York office of Cyanamid and talked with Dr. N. B. Sommer, Supervisor New Product Development and with W. F. Whitescarber and E. H. Trussell, Manager and Asst. Manager of Cyanamid's Coating Resins Department.

SUMMARY:

Resyl Resin 50-5 a non-drying oil alkyd is proving very successful in nitrocellulose furniture lacquers - yielding 25+cycles cold crack after panels have aged seven years, has good prime resistance and good polishing properties.

A special styrenated alkyd is being developed for automotive use. Thus far only laboratory batches have been made but they expect to have a semi-works batch by December 1 and will give us sample of first satisfactory semi-works batch.

Work is under way to utilize acrylonitrile in finishes altho they estimate that sale of such materials is four years away.

Melmac 247 is considered by American Cyanamid to be a good equivalent for Monsanto's Resimene 881. This is in line with Flint's Memo. Report No. 65 on "Equivalents for Resimene #881 in High Gloss Lacquers."

N35461

The New Product Development Department has recently issued a bulletin on newly released products. We have also obtained a listing of chemicals given limited release by Cyanamid over the past two years. These listings are available from the writer.

DETAILS:

Rezyl 50-5 with which the furniture finishes group is already familiar is being given renewed emphasis due to its outstanding performance in the field. In addition to providing good cold crack resistance for at least seven years (25+ cycles) this alkyd provides good print and abrasion resistance together with good rubbing and polishing properties. It also performs well in sanding or other lacquer sealers for furniture. Literature on this item is available from the writer.

A new styrenated alkyd for automotive use which is now under development was said to be superior to the best regular alkyds currently available for durability- (18 months in Florida without bronzing of blues or chalking of maroons). It is outstanding for gloss and fullness, patches and polishes well, has very rapid thru dry and good resistance to gasoline and oil. Thus far they have produced it in laboratory batches only, altho they expect to have a semi-works batch made by Dec. 1. As soon as they have checked the semi-works material with their standard, they will give us a sample.

Cyanamid is looking into the possibilities of acrylonitrile in finishes. Thus far they have nothing to discuss as their work is still in the exploratory stage and they do not expect to have any commercial items of this type within four years.

ACTION:

(1) Stauffer will follow Cyanamid for a sample of their new styrenated alkyd for automotive use.

(2) J. H. Lowell will evaluate above alkyd as automotive finish when available.

MARSHALL LABORATORY

H. G. Stauffer

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