

GRACE CONFIDENTIAL

CONSOLIDATED MONTHLY SUMMARY

MAY 1972

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W. R. GRACE & CO.
RESEARCH DIVISION



Washington Research Center, Clarksville, Maryland 21029

June 1, 1972

MONTHLY REPORT FOR MAY 1972
CONSOLIDATED EDITION

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NOT TO GO OUTSIDE U.S.

This report contains information on the following activities
at the Washington Research Center:

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them by the Research Division is acceptable for use in producing hydrofluoric acid by their process. Originally, it had been anticipated that the discussion would be conducted under a secrecy agreement; however in the meantime, Chemico changed their plan. No confidential information was given to Chemico or Buss Ltd. The intent of their visit was simply to determine any recent progress or action that Grace may have in reducing the process to commercial practice. We, of course, have made no progress in that area. Chemico probably will not take further action until, or unless, a prospective customer shows interest.

(Legal, Kolbe)

REFORMULATION AND EVALUATION OF MONO-KOTE (Project 2659)

Commercial dry-hose spray equipment made by the Allentown (Pennsylvania) Pneumatic Gun Co. was tested on April 27. Formulations of MK-4 and ZIC were sprayed successfully, but placement densities were too high. This confirms previous results with MK-4 using the Air Placed Concrete Co. equipment. However the equipment and time were not available to test all possible operating conditions to achieve lower densities. We believe the density can be controlled by adjusting water and air pressure. Other factors such as nozzle design, air entraining agents, foaming agents, and mixing could possibly affect density also.

WRC has purchased a Model N-0 pneumatic gun, the smallest commercial gun, and will now commence a study of the factors affecting the properties of dry-hose applied construction products.

First, we intend to determine the critical factors for the use of the gun in ZIC application. A program has been prepared for the Construction Products Division's comments. The plan will be discussed with them on May 31, 1972 at Cambridge. Experimental work will start about June 15.

(Kraus, Legal)

TEROSON CONSTRUCTION PRODUCTS (Project 2667)

Teroson (Grace, Heidelberg, Germany) is interested in testing specimens of WRC silicate construction materials applied to metal parts supplied by them. Metal parts have been shipped from Germany and information has been received describing how the samples should be prepared. Work will commence upon receipt of the metal parts.

(Legal, Kolbe)