FILE NAME: Kaiser Cement (KCEM)

DATE: 1975 Nov 5

DOC#: KCEM012

DOCUMENT DESCRIPTION: Memo

# KAISER CEMENT & GYPSUM CORPORATION

INTER-OFFICE MEMORANDUM

TO J. W. Post

DATE November 5, 1975

COPIES TO E. L. Erwin, G. B. Kirk, J. F. Pennell, J. I. Walker, I. M. Watson

FROM R. E. Sharpe

SUBJECT SUBSTITUTES FOR ASBESTOS IN PLASTIC CEMENT (W/O 694-681)

I talked with Mr. Nate Greening of PCA in regard to any work they have done with materials to aid pumpability of plaster mixes. He mentioned the following materials they have tried, some of which were either unsuccessful as a pumping aid or were deleterious to the physical properties of the plaster.

Paper Pulp Fiber
Talc
Mineral Wool
Starch
Polyox (pumpaid marketed by W. R. Grace)
Methylcellulose plus Lime

They found the best materials were paper pulp or mineral wool. Talc worked well, but it is chemically close to asbestos. The other materials either entrained too much air, caused slow sets or reduced the ability of the plaster to stick to the wall.

He suggested that we try various proportions of expansive cement. They found that high $C_3A$ in cement would enhance the pumpability.

Based on his recommendations I think we should try additions of small amounts of expansive component and also run more tests with paper pulp and mineral wool.

RES/lz

[illegible] Gypsum Corp.
[illegible] 1975
J. I. WALKER

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