

SHELL CHEMICAL CORPORATION

MANAGER, RESINS AND PLASTICS -
HEAD OFFICE

JUNE 12, 1952

EPOX ADHESIVE VI AND
MODIFICATIONS

EASTERN DIV. - RESINS AND PLASTICS - MANAGER
WESTERN DIV. - CHEMICAL PRODUCTS - MANAGER

770.21

SHELL DEVELOPMENT CO.	
REC'D	JUN 13 1952
CC	WCC
M.D.	
TO HANDLE:	
ANS'D	BY:

PLAINTIFF'S EXHIBIT

SH-1011

We understand from discussions with Shell Development Company, that a modification of EPOX Adhesive VI, in which the EPOX 834 and allyl glycidyl ether are replaced with an equivalent amount of EPOX 828, appears to overcome the poor heat resistance of EPOX Adhesive VI and in addition is superior in most respects to EPOX Adhesive VII. It is our feeling that we should discontinue shipment of Adhesive VI except to specified customers who do not require good heat resistance and who are acquainted with this drawback of the present material.

We have asked Shell Development to proceed with complete testing according to U.S.A.F. Specification 14164, of this new modification, and to attempt by the addition of small amounts of allyl glycidyl ether, to reduce the viscosity to a more workable level.

Shell Development is of the opinion that by the time EPOX 828 is again available from Houston, which will probably be 2 to 3 weeks, after the termination of the present strike, they will have sufficient data on performance that they will be ready to go ahead with manufacture of this new adhesive for future sales.

The one disadvantage of this new formulation is its apparent slowness of cure at room temperature with Curing Agent A. This appears to be a function of EPOX 828 and Shell Development are currently investigating diethylene triamine as a room temperature curing agent for this adhesive. If diethylene triamine proves to be a satisfactory room temperature curing agent, we may find it necessary to market two grades of adhesive in which the resin formulation is the same, but in one case Curing Agent A would be supplied and in the other diethylene triamine.

We feel that this new adhesive should be designated as Adhesive VIII, since we do not want it to be associated with the older Adhesive VI which had deficiencies in heat resistance. Also, we do not

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went to call it Adhesive VII due to the fact that reports have already been issued in the company describing another formulation under this number.

We would appreciate your thoughts on this subject and any recommendations you may have based on your contacts with customers who have been using Adhesive VI in its present form.

Original Signed By
F. S. SWACKHAMER

F. S. Swackhamer

SC,ny

cc: G. E. Johnson
P. E. Joyce
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