Monsanto

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FROM (NAME—LOCATION—PHONE) J. H. Orem - Galt Labs- 1730

DATE : February 21, 1980

SUBJECT : NATIONAL STARCH
WITOLD PERLINSKI
XA-2000
(201) 685-5469

REFERENCE :

TO : A. W. Morgan

cc G. R. Beck - E2NB
B. R. Dolimount - Everett
R. V. Johnson - 1410
R. G. Ribaudo
N. W. Touchette

Witold Perlinski works with Art Pruiksma, and he is the one that did the actual evaluation of XA-2000. By his own admission, he did not do very much. He evaluated XA-2000 as a contact adhesive for laminating Formica to particle board with these results:

1. it does not look like a contact adhesive,
2. there was no fusion after drying; his description of the lack of auto-adhesion, and
3. brushability was horrible.

Explained that we had also found a lack of adhesion after drying; however, we believe it will be possible to achieve contact adhesive type properties with the XA-2000 approach. However, this will be Part III of our evaluation, and it will not commence until late April at the earliest. On brushability, I stated we were not attempting to develop this, or coatability, because we are not adhesive experts. We do not intend to sell an adhesive and therefore are knowingly not studying many areas. These are being left to the experts such as National Starch.

I gave him the Re-wet Lap Shear data, results of the water/filler testing, water immersion results, and fabric-fabric 180°T-Peel data. Witold questioned why we get an increase in lap shear after re-wet.

National Starch uses plywood for testing lap shears. Also, they run a "wet shear" test that he believes is easier to use than is our 96 hour water soak where we measure inches of water penetration. Their "wet shear" test is:

a) make a 2 inch overlap,
b) soak overnight (16 hours),
c) remove from water and wrap in aluminum foil to prevent drying,
d) determine lap shear on tensile tester.

He inquired into our method for making XA-2000; they do not have a Myers Mixer. Witold has not seen the letter I wrote to Art Pruiksma. I will send a copy to Perlinski and also a summation of our new data.

DSW 587086

Mr. Perlinski was advised that we are now going to start Part II, the two phase study using Scripset 520 and EMA-31, and this will be completed around mid-April. At that time, we will want to again discuss our results and review National Starch's progress.

Bruce, I get the feeling communications within National Starch leaves much to be desired. You will get a copy of my letter to Witold Perlinski, and I suggest you make sure Dick Weidener sees it. I do not know how you want to handle this with Art Pruiksma and Stu Ganslaw. Art did set up my conversation with Witold and apologized for being tied up this week with their Australian representatives.

JHO/gls

J. H. Orem

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