Monsanto

FROM (NAME & LOCATION): J. H. Orem - Galt Labs - 1730

DATE: September 21, 1979

cc: N. B. Touchette

SUBJECT: H. B. FULLER - MINNEAPOLIS

REFERENCE: Plasticizer/Anhydride Resin Based Water Contact Adhesives

TO: A. W. Morgan

Had a very good meeting with James Neil Johnson and his associate on Friday September 14. They are definitely interested in cooperating with us. Neil Keeney had previously disclosed the identity of the resin system, Scripset 520 and EMA-31. Showed them the following work:

Open Time
Masonite Strips 1"x2"x1/5"
Coated 5 mils per side
Laminated with 5 kg pressure for 5 min.

	Pounds Pull	
After	1	2
0 minutes drying	387	400
15 minutes drying	379	452
30 minutes drying	452	404
45 minutes drying	430	321
60 minutes drying	340	384
75 minutes drying	310	363
90 minutes drying	290	213
105 minutes drying	224	---
120 minutes drying	---	---

Below is a list of questions they raised and for which they would like answers:

1. Since our work shows immediate high lap shear, why doesn't it set-up in the can..
2. does air cure it..
3. is the isobutanol causing cross-linking..
4. how would we predict this adhesive would perform on glazed wall tile..
5. can they make a product with a 10,000 cps viscosity that could be applied with a roller..
6. what is the EMA's UV stability..
7. regarding the adhesive's dry film characteristics, is it an elastomer type..

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8. do we know the Tg..

9. can a dry film of the adhesive be re-moistened and regain tack..

10. want SMA and EMA bulletins..

11. what is price of EMA and SMA..

12. how good are the lap shears after 6 months or more..

13. did we get instant grab under low contact pressure (told them we did)..

14. what is the adhesives water resistance after bonding..

15. can the ternary chart showing properties of various proportions be re-worked so it can be understood; attached is the copy he had..

16. what is the order of addition of the various raw materials..

17. would like to see the actual Masonite samples we prepared

18. would like a sample of our formulated adhesive.

Maury Merchant telephone September 20 and asked how the project was proceeding. Told him H. B. Fuller was very interested. Maury's new Scripset plant should be on stream in a month or so. Supply looks okay.

Since I will be gone for over a week, can you telephone Jim Johnson and discuss his questions? Telephone number is (612) 645-3401.

J. H. Orem

JHO/gls
attach.

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