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TECHNICAL SERVICE REPORT

by

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"UCAR" LATEX VCX-3000
Application in
Wet-Mix Tape Joint Compounds
To Eliminate Low Temperature
Adhesion Problems

Union Carbide Corporation
Chemicals and Plastics
Research and Development Department
South Charleston, West Virginia

February 27, 1969

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TABLE II

SUGGESTED WET-MIX TAPE JOINT COMPOUND

Ingredients and Order of Addition	% by Wt., Dry Ingredient Basis
1. Water: Add water to the mixer equivalent to 36.0% by weight of the total mix, corrected for the water added below (a). Note: Start the mixer.	
2. CELLOSIZE TJC Grade thickener, (Union Carbide) Note: Sprinkle in the powder and let wet a couple of minutes.	0.50
3. "Dowicide" A, Bacteriastat, (Dow Chemical), or similar. Note: Let mix until the thickener is in solution. Usually takes 4-6 minutes for maximum thickening.	0.20
4. "Daxad"-30, Pigment Dispersant, (Dewey and Almy).	0.60
5. UCAR Latex VCX-3000 (Union Carbide), Preplasticized Binder.	7.38
6. Ethylene Glycol, Filming Aid, (Union Carbide) Note: Mix until the above mixture is homogeneous (well dispersed).	1.00
Add the fillers below singly or as a mixture.	
7. Calidria SG-210 Grade Asbestos (Union Carbide)	4.50
8. Mica, P-80-F, (Western Mica)	21.00
9. Clay, ASP-400, (Minerals and Chemicals, Phillip)	4.00
10. Calcium Carbonate, No. 1 White, (Thompson-Weinman)	60.72
11. Nopco PD No. 1, Antifoam (Nopco Chemical) Note: A well wetted and dispersed wet-mix is obtained in 120 minutes mixing in a one-gallon Baker-Perkins Sigma Blade Type Mixer, at 79 r.p.m.	0.10

Note: (a) With the fillers listed here 36.0% water gives a TJC viscosity near 600 Brabender Units. This will vary with the water demand of the fillers. If in doubt, withhold a small amount for final viscosity adjustment.

The above formulation gives excellent low temperature tape joint compound adhesion to wallboard tape performance. Some typical properties of the above formulation obtained in the one-gallon laboratory mixer and results obtained in a plant-size mixer, are listed below in Table III. Included for comparison are average results obtained on commercial wet-mix materials purchased from the market place.

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