



amdel

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29 January 1993

Bio Products Australia Pty Ltd
25 Aldgate Terrace
BRIDGEWATER SA 5155

Attention Mr Dieter Groening

REPORT M113/93

CLIENT REFERENCE

Order No.19

TITLE

Drying Tests on Bio Product Floor Varnish.

SAMPLE IDENTIFICATION

Satin Floor Varnish 930175 - 1 litre & Bio
Thinner No.03 - 250mLs

WORK REQUESTED

Test on
Softwood - 3 coats
Hardwood - 2 coats

Investigating Officer:

Bernard G Egan.

John A Lackey
Acting Manager
Materials Services

1. INTRODUCTION

Bio Products Australia Pty Ltd requested that Amdel carry out a simple drying test on a sample of Bio Products "Floor Varnish, Satin". The test was to run for 24 hours after application of the coating.

2. PROCEDURE

Method 101.1 "Air Drying Conditions" of AS 1580 May 1975 for "Methods of test for paints, varnishes and related materials", was generally followed for routine conditions (Section 3).

The conditions were satisfied with a climate controlled room at $23 \pm 1^\circ\text{C}$ and humidity at $50 \pm 15\%$. The samples were kept out of direct sunlight and allowed free access to the well ventilated room.

Planed surfaces of Pinus Radiata, Torolosian Cypress and Jarrah were used as test panels. The application procedure was cleaning with thinners, brushing and working well into the grain. Two coats and three coats were applied to different areas of the test pieces with a 24hr interval for drying. The drying time was assessed by touching the test panels and checking for transfer of material onto the finger visually and by feel. (Note that the third coat on the pinus radiata was applied after only 4 hours of the second coat due to time constraints).

3. RESULTS

Drying Time at 23°C & Nominal 50% Humidity	Pinus Radiata	Torolosian Cypress	Jarrah
6 to 8 hours	Dry	Dry	Dry
24 hours (after last coat)	Dry (3 coats)	Dry (2 coats)	Dry (2 coats)

All samples had a 'satin' finish after drying.

4. DISCUSSIONS AND CONCLUSIONS

The satin floor varnish sample supplied does dry in 24 hrs when the application conforms to the instructions on the can and tested on Pinus Radiata, Torolosian Cypress and Jarrah conditioned in a Temperature Controlled laboratory at 23°C .

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