

Test Report No. 304 983 Date 10 August 2005

**ADLER Legnopur G70 26217 coat for  
furniture; testing of resistance to  
chemical reactions in accordance  
with ÖNORM A 1605-12,  
Evaluation class 1-B1**

<b>Client</b>	ADLER-Werke Lackfabrik Johann Berghofer GmbH & Co Bergwerkstrasse 22 A-6130 Schwaz
<b>Test item</b>	Adler Legnopur G70 26217 coat for furniture
<b>Test specifications</b>	Testing of resistance to chemical reactions in accordance with ÖNORM A 1605-12, Evaluation class 1-B1
<b>Contract</b>	Writing of 18 July 2005
<b>Date of sampling</b>	—
<b>Location of sampling</b>	No samples taken by <b>ofi</b> staff. Samples provided by <b>ofi's</b> client.
<b>Receipt of samples</b>	19 July 2005
<b>Ref</b>	Dr.Grü/Feld

## 1 SCOPE OF WORK

According to the contract, the sample submitted was tested with regard to resistance to chemical reactions in accordance with ÖNORM A 1605-12, Evaluation class 1-B1 (accredited test procedure).

## 2 SCOPE OF APPLICATION

The results given in this test report have been obtained under the specific conditions of the individual tests. They shall serve as proof for **ofi's** client of the conformity of the samples tested with the requirements of the product standard given.

This test report has originally been drawn up in German. The German version shall be the authentic one and prevail over the English one for all matters of interpretation and construction. The English version shall only be deemed a translation for information purposes.

## 3 SAMPLE MATERIAL

**ofi's** client provided the following sample for the purpose of testing:

- 3.1. 1 chipboard with beechwood veneer (approx. 12 x 400 x 400 mm), with 2 coats of ADLER Legnopur G70 26217, marked *Spanplatte mit Buche furniert, Holzschliff Kö 180, 2 x lackiert mit „Adler Legnopur G70 26217 + 10% Adler PUR-Härter 82019, Zwischenschliff Kö 280, Adler-Werk Lackfabrik A-6130 Schwaz, 13.07.2005* [chipboard with beechwood veneer; sanding grain size 180; 2 coats of Adler Legnopur G70 26217 + 10% Adler PUR hardener 82019, intermediate sanding grain size 280; Adler-Werk Lackfabrik A-6130 Schwaz, 13 July 2005];
- 3.2. 1 chipboard with beechwood veneer; uncoated;
- 3.3. 1 kg liquid sample of Adler Legnopur G70 26217;
- 3.4. 100 g liquid sample of Adler PUR hardener 82019;
- 3.5. 0.5 l liquid sample of Adler DD thinner 80019.

### Other documents submitted by **ofi's** client:

- Adler Legnopur 26211ff technical data sheet and safety data sheet, Adler PUR hardener 82019 safety data sheet, Adler DD thinner 80019 safety data sheet.

## 4 TESTS

Testing took place from 25 to 27 July 2005. The tests were carried out in the technical departments in charge, within the scope of competence of the authorised signatories according to the *ofi* QM manual.

### 4.1. Resistance to chemical reactions

The tests were carried out in accordance with ÖNORM A 1605-12: Furniture – Testing specifications – Furniture surfaces; German edition 12/99, as well as ÖNORM EN 12 720: Furniture – Assessment of surface resistance to cold liquids; German edition 11/97. Filter paper soaked with the respective test substance was applied to the coated sample (Sample 3.1), and covered with a Petri dish. The sample was assessed after 24 hours of exposure, in accordance with ÖNORM A 1605-12 (*accredited test procedure*), German edition 12/99. In accordance with the contract, the coat was assessed with regard to Evaluation class 1-B1, which included additional tests with the test liquids given in Table 2 of the applicable standard.

Table 1

Resistance to chemical reactions in accordance with ÖNORM A 1605-12			
Test liquid	Time of exposure	Evaluation class 1 B1	
		Required	Test result
Acetic acid	6 h	5	5
Acetone	2 min	2	5
Ammonia water	6 h	3	5
Citric acid	6 h	5	5
Detergent	6 h	5	5
Coffee	16 h	5	5
Disinfectant	6 h	5	5
Ethanol	6 h	5	5
Ethyl acetate/butyl acetate (1:1)	2 min	2	5
Evaporated milk	16 h	5	5
Olive oil	16 h	5	5
Paraffin oil	16 h	5	5
Sodium carbonate	6 h	5	5
Sodium chloride	16 h	5	5
Tea	16 h	5	5
Water	16 h	5	5

**Table 1, continued**

Resistance to chemical reactions in accordance with ÖNORM A 1605-12			
Test liquid	Time of exposure	Evaluation class 1 B1	
		Required	Test result
White wine, red wine <sup>1)</sup>	16 h	5	5
Beer <sup>1)</sup>	16 h	5	5
Cola beverages <sup>1)</sup>	16 h	5	5
Blackcurrant juice <sup>1)</sup>	16 h	5	5
Petroleum <sup>1)</sup>	1 h	5	5
Rubber stamp ink <sup>1)</sup>	6 h	3	5

<sup>1)</sup> Additional test substances as agreed

5 ... no visible change

4 ... mild change in gloss and colour

3 ... mild marking

2 ... pronounced marking, surface structure largely unchanged

1 ... pronounced marking, surface structure changed

## 5 RESULT

The sample

### **ADLER Legnopur G70 26217 / 10% Adler PUR hardener 82019**

coat for furniture, on the substrate tested (i.e., beechwood veneer), fully meets the requirements of ÖNORM A 1605-12, Evaluation class 1 B1, on resistance to chemical reactions.

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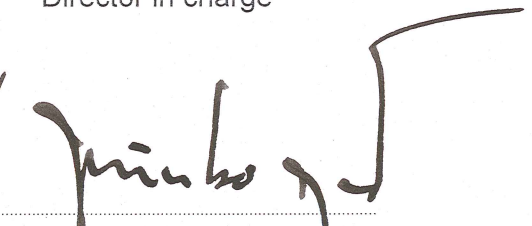
comprises 5 sheets with 1 table, 0 figure(es), 0 appendix(es).

Testing engineer

*i.v.*  
  
Andrea Feldmann



Director in charge

  
Dr. Anton Grünberger

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