



Investigation Report

Client: PPG Deco Polska Spolka z o.o.
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51-416 Wroclaw
Poland

Order-No. (Client):

Order-No. (MPA): **902 7979 000-2 Whr/Pi**

Test Item: **Laquer „Domalux Extra Hard Polmat“ on parquet**

Specification Applied: EN 13036-4, EN ISO 5470-1, EN 13745
DIN V 18032-2:2001-04

Date of Receipt of Test Item 04.2014

Date of Test: beginning .04.2014

Date of Report: 20.05.2014

Page 1 of 3 text pages

Enclosures :

Supplements:

Total Number of Pages: 3

Number of Reports: 1

The test results relate only to the items tested.

Publication of this report in full or partly is only allowed with written authorization by MPA University of Stuttgart.

In compliance with DIN EN ISO/IEC 17025 accredited Testing Laboratory recognized by DAkkS Deutsche Akkreditierungsstelle GmbH.
Accreditation valid for testing methods listed in the certificates (Reg. No. D-PL-11016-00).

1 Purpose of investigation

You commissioned us to run the following tests on the floor lacquer “**Domalux Extra Hard Polmat**” applied on a parquet sample:

- friction,
- abrasion resistance
- specular reflectance
- sliding properties

For the test we received a sample with the dimensions 0,7 m x 0,2 m.

2 Testing procedure

The friction test was carried out according EN 13036-4. The sliding test was carried out according DIN V 18032-2:2001-04. These procedures are accredited according to DIN EN ISO/IEC 17025:2005 (DAkkS-registration-no. D-PL-11016-01-09). Testing conditions: 23-50-2 according to DIN 50014. The specular reflectance was determined according to EN 13745. The abrasion resistance was determined according to EN ISO 5470-1.

3 Test results

The following test results were obtained

Table 1: friction

testing spot no.	friction
1	43
2	43
3	44
4	44
5	43
Mean value	43

Table 2: abrasion resistance

testing spot no.	loss of mass in mg
1	16,1
2	31,8
3	15,5
4	22,0
Mean value	21,4

Table 3: specular reflectance

Testing spot no.	Specular reflectance
1 (average of 3 measurements alongside)	34,6 %
2 (average of 3 measurements crosswise)	35,8 %
Mean value	35,2%

Table 4: Sliding properties :

testing spot no.	sliding coefficient μ
1	0,35
2	0,36
3	0,35
4	0,34
5	0,35

4 Evaluation

Basis for the evaluation for friction and abrasion resistance are the requirements in EN 14904: Regarding friction the following requirements are valid: Mean value (80 – 110), range (+/- 4 units). Regarding abrasion resistance the loss of mass shall be ≤ 80 mg / 1000 cycles. The requirement for friction was not fulfilled, the requirement for abrasion resistance was fulfilled. For specular reflection there are no requirements but the mean value shall be reported.


According to DIN V 18032-2:2001-04 the following requirement is valid: μ min. 0,4, μ max. 0,6. This requirement was not fulfilled by the tested floor lacquer „Domalux Extra Hard Polmat” on parquet.

Prepared by


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Tester



Approved and released by


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