



Certificate
for
Miraphen UV-Parquet coatings

applied on parquet surfaces by

Technomar, Maardu, Estonia

Lacquer description	Art. No.	appl. amount of material
Hydro UV- Primer	178-000-00024	10 g/m ²
UV- sealer	161-000-00380	27 g/m ²
UV- putty	168-000-00005	18 g/m ²
UV Sealer, antiabrasive	161-000-00129	20 g/m ²
UV- sealer	161-000-00380	25 g/m ²
UV- sealer	161-000-00380	19 g/m ²
UV Top Coat Anti Scratch	163-045-53010	6 g/m ²
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The following technical properties and standards are fulfilled:

Test	Standard	Classification
Film thickness	/	64-68µm
Abrasion resistance	S33 / 500g Initial point	IP 1.050 cycles
Abrasion resistance 1000g/wheel, 1000 cycles	CS17 (weight loss)	25mg
Abrasion resistance ASTM	CS 17 Initial Point	IP >25.000 cycles
Abrasion resistance SIS	SIS Falling sand method	IP 1.500 cycles
Cross cut Test	DIN 53151	Gt 0
Gloss value	60°	29-33 Units
Coin Test	Hamberger planner	>40 Newton
Scratch resistance	Steel wool test	No scratches, no marks
Impact resistance	BOSCH Top	3 Newton
Impact resistance Small ball	DIN 55155	8 Newton

The achieved values are suitable for the European and North American market.

Friedrich Klumpp GmbH

Thomas John
Asst. Product Manager
Stuttgart, November 2006

Geschäftsführer: Dr. Wolfgang Klumpp
Postbank Stuttgart (BLZ 600 100 70) Kto.-Nr. 146 57 706
Landesbank Baden-Württemberg (BLZ 600 501 01) Kto.-Nr. 2 464 008
Handelsregister: Amtsgericht Stuttgart HRB Nr. 8457
Ust-IdNr. DE 811240555

TEST CERTIFICATE

Number: ST-07-06-29-1

Product: Multilayer parquet oak, dimension: 2200 x 204 x 13,7 mm

Producer: Technomar & Adrem Ltd.
Vana Narva mnt. 22
74114 MAARDU, ESTLAND

Order: Testing of selected properties of a multilayer parquet

Test report: 277108

Test results:

Property	Result	Level to use (LU)*
Resistance to abrasion according to ENV 13696	170 revolutions	LU 1 – 4 fulfilled
Chemical agents according to EN 13442	grade 5 (16 h)	LU 1 – 4 fulfilled
Scratching resistance/elasticity according to "Hamberger Prüfanweisung"	29 N	LU 1 – 4 fulfilled
Scratch- Hardness according to IHD-W 438	0,61 N	LU 1 – 6 fulfilled
Adhesive strength according to DIN EN ISO 2409	GT1	LU 1 – 6 fulfilled
Formability according to ENV 13696	cone 9	LU 1 – 6 fulfilled
Contamination resistance according to IHD-W 427	grade 0	LU 1 – 6 fulfilled
Effect of a soft chair castor according to EN 425	no damages	LU 1 – 6 fulfilled
Changing climate according to IHD-W 424	no damages	LU 1 – 6 fulfilled

* Classification in levels to use (LU) according to the „Requirement Profile for wooden flooring lacquer,
version 01/2003 (LU 1: private living area / moderate use to LU 6: area of object / heavy intensive use)

According to the Chemikalienverbotsverordnung (ChemVerbotsV - Chemical prohibition regulation)
and EN 14342 the limiting value of an E1- class for the formaldehyde emission is 0,1 ppm.
With regard to a formaldehyde emission of 0,02 ppm after 624 h the tested parquet surely meet the
limiting value of the ChemVerbotsV § 1 (3) as well as the requirements according to EN 14342.
Therefore the product can be classified to the formaldehyde emission class E1.

Dresden, 29 June 2007

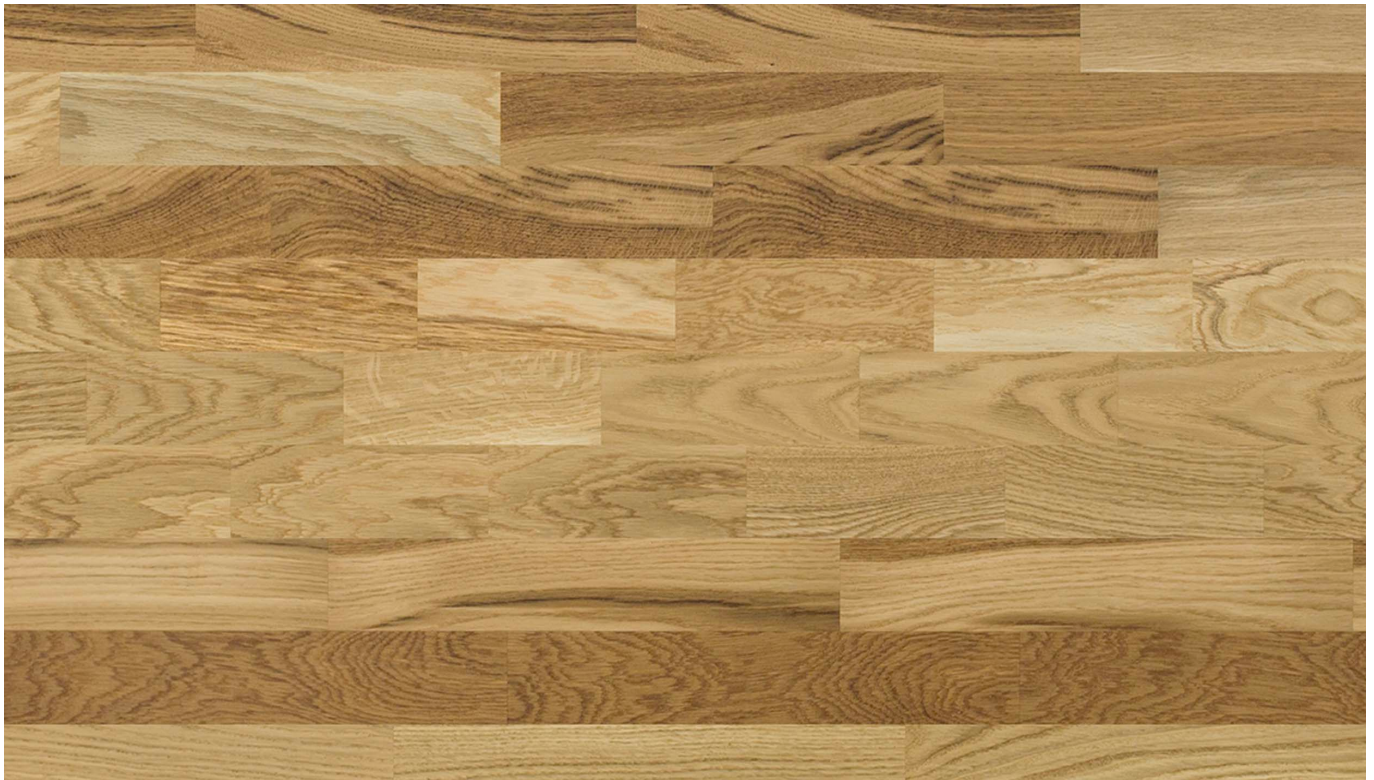


Head of laboratory





Engineer in charge



NATURAL COLLECTION

3 Strip Oak Promo Extra Matt Lac. NB Light Brushed Gloss 5-11%

#13097



Width 204	Min/Max Length 2200/2200	Surface Treatment Extra Matt Lac 5-11% Gloss	Pattern 3 strip
Color Natural	Grading Vintage	Bevel NB	Layers 3 Layer
Brushing Light Brushed	Installation Type UNILIN, Click	Top Layer above 2,5mm	Species Oak
Wood Harness	Package 2.6928 m ²		