



No. 6.4.3

Technical Data Sheet

Miraphen® Ceramic UV-Top Coat, anti-abrasive

Art. no.: 163-060-00013, glossy
163-030-00013, semi-gloss

General Information: UV-curing top coat for parquet and veneer floors with extremely high abrasion resistance.

Qualities: **Miraphen® Ceramic UV-Top coat** was developed especially for extreme abrasion resistant lacquer surfaces.
Besides its excellent abrasion resistance, **Miraphen® UV Ceramic-top coat** also distinguishes itself through high transparency.

The following examples explain the abrasion resistance:

<u>Example (antiabrasive)</u>	<u>Example (non antiabrasive)</u>
10 gr/ sqm (UV)- Primer 40 gr/ sqm UV- Putty/Sealer 35 gr/ sqm UV- Sealer, ceramic 10 gr/ sqm UV- Top coat ceramic	10 gr/sqm (UV)-Primer 40 gr/sqm UV- Putty/Sealer 35 gr/sqm UV- Sealer 10 gr/sqm UV- Top coat
~ 95 gr/sqm total amount	~ 95 gr/sqm total amount
abrasion	
1) ASTM, CS 17 (500 gr/wheel): ⇒ approx. 20000 turns	1) ASTM, CS 17 (500 gr/wheel): ⇒ approx. 2000-3000 turns
2) EN 438 (DIN 68861) S33 (500 gr/wheel): ⇒ approx. 2500 turns	2) EN 438 (DIN 68861) S33 (500 gr/wheel): ⇒ approx. 100- 200 turns

Miraphen® Ceramic UV-Top coat was developed so that even after months of storage, no setting of antiabrasive substances can be observed.

Miraphen® Ceramic UV-Top coat corresponds to DIN 4102, B1, non-readily ignitable and DIN 68861, 1B, chemical resistance, is solvent free and environmental friendly.



Treatment: **Miraphen[®] Ceramic UV-Top coat** is applied with a hard rubber roller.

Immediately after the application at a belt speed of
12 m/min with 3 mercury lamps (80 Watt) can be cured.

As precautionary measure we recommend wearing rubber gloves and protective glasses.

Applied quantity: approx. 8-10g/sqm

Viscosity: 163-030-00013 30°C: ~ 26-28 sec., 6mm DIN cup
163-060-00013 20°C: ~ 48-50 sec., 8mm DIN cup

Shelf life: 1 year in original, unopened canister.

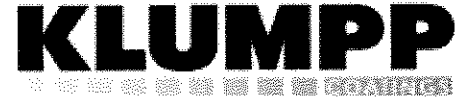
Classification: Free of heavy metal, formaldehyde and insecticides/pesticides.
-6.4.3-

Remarks: Klumpp Woodcoatings is producing high quality materials, based on suitable application technologies. Our proposals are to be considered as recommendations without obligations. Proposals are based on our experience and know-how, but they do not release from careful production and quality control.

Our technical engineers are always available for your needs.
(08/2002)

WFI BAMBOO LLC

www.bamboofloors.com



As a special customer service, our laboratory division issues quality certificates according to all important international standards and norms as indicated in the sample below.

In order receive correct values, reflecting the specifications of different UV-lines and parquet types, parquet samples of original productions will be tested in our laboratories.

The sample showing average values, typical for usual UV-pre-finished parquet qualities:

QUALITY CERTIFICATE

This is o certify that for

Ceramic Miraphen UV-Parquet coatings

Applied on parquet surfaces

Following technical properties and international standards are fulfilled:

Test	Standard	Classification
Gloss Value	DIN 67530	According to sample
Inflammability	DIN 4102	B1
Pendular hardness on glass	DIN 53157	Minimum ca. 100 swings
Chemical resistance	DIN 68861 TL1	1B
Coefficient of friction	DIN 18032/2	0,3-0,5
Abrasivity Miraphen UV-Coatings	DIN 68861 T1 2	1.200-1.700 cycles
Miraphen UV-Coatings	ASTM 1.000g weight CS 17 stone	12.000-1.7000 cycles
Scratch resistance	DIN 68861 TL4	4C
Cigarette test	DIN 68861 TL6	6C
Heat test	EN 12722	120°C
Cross cut test	DIN 53151	GT 0

Test results are based on total applied quantity of 80 g/sqm.

Certified by
Friedrich Klumpp GmbH
Stuttgart, February 2000