

**Edition:** 24/12/2014

**Order code:** HPC-6007 + PUR-1200

**Code:** HPC-6007-T-ENG

## NO VISIBLE LAVA



### DESCRIPTION

No Visible Lava is a product based on an advanced technology. It is a two-component product (a copolymer of polycarbon, polyurethane and polyacrylate) for finishing all types of parquet and elements in rough wood (only for clear types). This product belongs to a new generation of parquet products, which combines high performance with environmental friendly technology. No Visible Lava is water-based and ecological. It provides a natural protection, totally invisible and without gloss, that perfectly conserves the charm of rough wood.

### APPLICATION DOMAIN

Suitable for new or untreated, white sanded parquets in living rooms. Also for all wooden applications in interior (massive wooden parts of furniture, paneling, ...).

Only suitable for clear wood types (oak, spruce, maple, ash and beech). On darker or medium wood, we recommend the use of Protect HD-4008 Mat or no Visible Nuance HPC-5009. Not suited for veneer (= wood of which the thickness of the massive wooden wearing course is smaller than 2,5 mm = view WTCB), wood in kitchens (round the stove, tabletops, ...) and bathrooms (rooms that are too moist).

Not suited on industrially prefinished parquet or sand-blasted wood.

### FEATURES

- Ultimate gloss 2,5 to 5 % (depending on the sanding). Totally invisible - extra-mat and filmogenic - feels natural - contains a permanent UV-protection against yellowing of the wood.
- Final treatment without special retreatment - adapted to homes and other wooden surfaces.

### ADVANTAGES

- **Does not alter the look**  
Perfectly maintains the colour and natural gloss of the wood.
- **No retreatment**  
Final treatment, simply cleanable.
- **High ecological performances**  
Conforms to EN-71.3, no odour, very low VOC-emissions.
- **Dries quickly**  
After the first layer, the wood has to dry for 4 hours. After the second layer, there's a drying time of 12 hours and only after this, a third layer can be applied.
- **No yellowing throughout time\***  
Contains a permanent ecological anti-UV agent that slows down the natural yellowing caused by UV-rays (when using layers of 240 gr.).

*\* Some types of wood can yellow, despite a high protective rate. These types of wood are therefore not suitable for this product.*

Nmp free

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### TECHNICAL DATA

Base:	water-based resin
Appearance:	milky emulsion
Gloss rate:	deep mat (gloss 2,5 to 5 %)
<b>Dilution:</b>	<b>demineralized water (approx. 5 to 10 %)</b>
Density:	1,05 gr/cm <sup>3</sup>
Dry matter:	± 35 % (after mixture)
Viscosity	about 30 - 40" (DIN4, 20 °C)
Mixing ratio:	9 volumes no Visible Lava HPC-6007 + 1 volume hardener PUR-1200
Self igniting temp.:	none
Application temp.:	between 13 and 25 °C
<b>Drying time:</b>	<b>dust-proof: 30 minutes</b> <b>recoverable: 4 hours</b> <b>completely hardened: after 7 days</b>
Mechanical resistance (Taber grindstone CS17 / 1000 rot. / 1 kg):	excellent: ± 35 mg
Stain resistance:	excellent (cfr. table chemical resistance)
Standard:	EN-71.3 Safety of toys. VOC-rate conforms the latest European guideline (DECOPAINT)

### CONDITIONS OF APPLICATION

According to the professional standards, **no Visible Lava can only be used:**

- At an ambient temperature and floor temperature between 13 and 25 °C.
- At a relative humidity between 40 and 60 %\*.
- On a clean and dry (humidity < 10 %) substrate, disposed of soap residue, impurities, sanding dust and other residues.
- Make sure there is a good ventilation, but avoid airflows that are too strong.

*\*The lower the humidity, the faster the drying. The higher the humidity, the slower the drying. The humidity can be measured with a humidity measurement instrument that is also available at Basin (HWZ-0149).*



### PREPARATION OF THE TOOLS

- **Roller:** start application with a small Rota Lisse (HWZ-00726) roller and continue with a Rota Lisse (HWZ-00725) that does not fluff. Before using the roller, it is recommended to brush the roller to remove any loose fibers, immerse it in water, wring it and let it dry. Only use dry and perfectly clean material. When using a roller, a pail (HWZ-90814) and a roster (HWZ-90703) must be foreseen to immerse the roller. Provide enough water to clean the tools after use.

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### PREPARATION OF THE SUBSTRATE

*When using no Visible Lava, the substrate must be prepared according to the following rules:*

- **On older unscrubbed parquets:** white sand the parquet at least three different times. Sand the wood fully white the first time with coarse grain (24-40). Repair or fill, if necessary, connections, holes, cracks and tears with sealant from the Basifon range of Basin. Next, sand with medium-coarse grain (60-80) and finish with a fine grain (100-120). Running a test before application is recommended!
- **On new and rough parquets:** a light sanding with fine grains is sufficient. You can use a sanding disc with grain 120, mounted on a thin black pad (monobrosse). In all cases, the ground, walls and skirting must be perfectly cleaned before applying a finishing product.

### PRIMERS

- In most cases, no Visible Lava can be applied immediately on rough wood in 3 layers (of 80 gr/m<sup>2</sup>).
- If you wish to strengthen the colour of the wood or when using wood species that are too acid, one can apply a water-based primer (HBN-05100 or HBN-08710) before applying the no Visible Lava.

### MIXTURE

- Stir well both no Visible Lava HPC-6007 and hardener PUR-1200 mechanically to avoid deposit residu. Mixing these 2 components must be done in a short time before applying (mixing ratio 9 : 1). Use 9 volumes of no Visible Lava HPC-6007 for one volume of hardener PUR-1200. Mix immediately and carefully until you obtain a homogeneous mixture. Afterwards, add 5 to 10 % of demineralised water, if necessary. The mixing can be executed in a destined container (HWZ-90814). The mixture is useable for 2 hours. Prepare an amount of product that can be fully used in this time window (maximum 1L for 4 m<sup>2</sup> of to be finished parquet). Mechanical application with drill and stick. Slowly add the hardener during mixing the varnish in a round jar.

### EXCEPTIONAL PRECAUTIONS

- **Brushed wood:** on strongly brushed wood, we recommend to execute the entire treatment with a paint brush or a pistol, so that the wood pores are well-filled and a good protection can be ensured.
- **Underfloor heating:** according to the application rules, the heating needs to be turned off 48 hours prior to applying the product. After that, it can be gradually turned on again seven days after the end of the treatment. Follow the prescriptions of the WTCB and contact the supplier of the heating material to ask for guidelines and to check the work process.

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### EFFICIENCY

- About 1 L per 10 m<sup>2</sup> per layer.
- The recommended amount for a complete treatment is 200 to 240 gr/m<sup>2</sup>, the equivalent for a total consumption of 1 L per 4 m<sup>2</sup> finished parquet.

### PACKAGING

- 4,5 L + 0,5 L
- 2 x 4,5 + 2 x 0,5 L
- Palette with 36 boxes

### APPLICATION

- Start applying on the edges of the space with a small roller (Rota Lisse HWZ-00726). Continue with a large roller (Rota Lisse HWZ-00725). Apply the product in an evenly way and end in the direction of the wood fibers (or in the direction of the daylight according to the type of placement). Avoid thickening.
- Adjust the application onto the edges so they are processed at the same rate as the adjacent areas.
- Organise the application in such a way that it can happen in smaller zones of 2 m<sup>2</sup>. Only by doing this, you can ensure that the edges are applied wet on wet (within 6 minutes).
- The whitish shine on the product disappears after a few minutes, after drying.
- Regularly check the consumption of the product, make sure the suggested consumption is respected (± 1 L per 10 m<sup>2</sup> per layer).
- After applying the first layer, a drying time of 4 hours (20 °C and 50 % r.h.) is needed. After a second layer a drying time of 12 hours is necessary. Fine sand with grain 220 after the second layer for the second layer. Then you can apply the third layer.
- Thoroughly clean the surface before applying the third layer.

- Every time you have to apply a new layer, you have to use a new roller (Rota Lisse). With 1 roller, you can role for maximum 1 hour. Change roller every ± 50 m<sup>2</sup>. No Visible Lava is used in three layers (a fourth layer is required on very porous wood). Check the consumption at the end of the third layer. The consumption must approach 200 to 240 gr/m<sup>2</sup> (= 1 L per 4 m<sup>2</sup> for finished parquet). If this consumption was not reached, a fourth layer must be applied!
- The varnish should be mixed every 10 minutes. **Attention:** when spraying, you only attain 50 gr/layer/m<sup>2</sup> so you have to apply 5 to 6 layers.

### DRYING

- **Dust-proof:** 30 minutes under normal conditions.
- **Able to finish:** 4 hours under normal conditions. Leave no break of more than 48 hours between two layers.  
Low temperature, humidity and thickness of applied layers can negatively influence the drying time of the product. In case of doubt, let the product dry for 12 hours, before applying the next layer.

### CLEANING OF TOOLS

- Clean the bucket and the roster immediately after use, with water. The roles must be thrown away after usage (lifespan of 2K varnishes = 1h). Respect the environment. Do not throw any products in the sewerage, water or on the ground. Let dry the product residue and throw away remains and empty packaging in the appropriate waste disposal.

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## DEPLOYMENT

- After a drying time of 12 hours, it is possible to carefully walk on the treated parquet.
- The maximum hardness of the product is accomplished after seven days.
- Do not cover.

## MAINTENANCE

- No Visible Lava is a permanent treatment that does not require a special maintenance. Regularly clean with a vacuum cleaner or swiffer. Dry cleaning is required during the first couple of weeks. Regularly maintain with a mild cleanser and well-wringed material.

## STORAGE

- Keep away from frost (be careful when storing this product in vehicles).
- Store in the original, unopened package in a dry environment between 5 and 25°C.  
**Durability of unopened products:** 12 months for the hardener / 24 months for the varnish.  
**Durability of opened products:** useable as long as no film has been formed on the surface and as long as the composition is not manipulated.
- Carefully close the two products after use.
- Clean the neck of the jerrycan, so the product does not lock up the lid.

## STANDARDS & CERTIFICATES

- Contains no heavy metals (such as lead, chrome, mercury and cadmium) and corresponds the EN 71.3 'safety of toys' standard. Contains no Chlorophenols (PCP), lindane (HCH), formaldehyde nor other toxic organic substances. VOC-level is very low (< 7 %) and conforms the European guideline Decopaint. No Visible Lava is a new-generation product on a resin-base, containing no NMP (N-Methyl-2-Pyrrolidone).

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## LABTESTS (PARQUET)

Chemical resistance according to:				EN 13442
Test nr.	Test liquid	Contact time	Start temp.	Result
1	distilled water	24 hrs	20 °C	5
2	detergent	24 hrs	20 °C	5
3	acetone	120 sec.	20 °C	5
4	ethanol (50 %)	24 hrs	20 °C	5
5	red wine	24 hrs	20 °C	5
6	red vinegar	24 hrs	20 °C	5
7	olive oil*	24 hrs	20 °C	5
8	milk	24 hrs	80 °C	5
9	coffee	24 hrs	80 °C	5
10	black tea	24 hrs	80 °C	4
11	ammonia (10 % water)	8 hrs	20 °C	4
12	blue / black ink	24 hrs	20 °C	3

Taber test (CS 17/1000 gr/1000 rot.) No Visible Lava HPC-6007 was applied in three layers (200 gr / m<sup>2</sup> / layer). Tested according to the NF-EN 483-2 standard after 7 days drying at 20 °C and 60 % r.h. Weight of scraped material: ± 35 mg (0,035 %).

\*An other range for kitchens will soon be introduced.

## EVALUATION

5	No visible damage
4	Slight changes in colour or gloss
3	Slight changes in colour or gloss, without changes in the structure of the film
2	Visible changes in colour or gloss, without changing the structure of the film
1	Visible changes in colour or gloss, structure of the film is damaged
0	Badly damaged surface

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