



# HYDRO DIAMOND

Environmentally friendly, water-based 1-component lacquer for heavy-duty wood flooring

## Description:

Water-based 1-component lacquer for heavy-duty wood flooring in domestic and commercial locations.

Especially suitable for the surface treatment of:

- sanded parquet and wood flooring in heavy wear areas such as, e.g. living areas, object areas, etc.
- structural interior decorative wood
- suitable for use on warm water underfloor heating systems

## Note:

In principle we always recommend that the floor is primed before sealing so as to avoid the detrimental effects of edge bonding, or rafting of the parquet boards. This applies especially to on-edge parquet, planed boards and particularly to parquet on warm water underfloor heating systems. For timbers prone to trowel-marking (e.g. beech, maple, ash and cherry) always apply the primer with a roller.

## Product Properties /Benefits:

Water-based 1-component wood flooring lacquer with a solvent content <5% and a good resistance to high levels of mechanical wear and chemical attack.

- Ready to use
- Long open time
- Easy to apply
- Roller application
- Correlates to German TRGS 617
- GISCODE W2+
- Labelled with German "Blue Angel"

## Technical Data:

Packaging:	plastic container
Packsizes:	5 litres
Shelf life:	min. 12 months
Gloss level:	semi-matt
Colour:	white-opaque
Consumption per coat:	approx. 100 – 130 ml/m <sup>2</sup>
Working temperature:	18 – 25 °C
Touch dry:	after approx. 0.5 – 1 hour*
Set to foot traffic:	after 2 – 3 hours*
Ready for sanding:	after 3 – 4 hours*
Final strength:	after approx. 10 – 14 days

\*Under normal climatic conditions.



**PALLMANN**

# HYDRO DIAMOND



## Surface Preparation:

After the adhesive is fully hardened, the surface treatment can commence. Pre-sand the surface using a drum sander fitted with Pallmann ABRASIVE GRIT 36 to 60 and then fill the joints with Pallmann HYDRO FILLER. Next sand with Pallmann ABRASIVE GRIT 100 using the drum sander. For final sanding use a rotary sanding machine with the Pallmann ABRASIVE GRIT 120. After the final sanding, the surface to be sealed must be clean, dry and free from sanding dust and contamination. Then use a suitable Pallmann primer according to the substrate type and the occupational use. Do not sand the primer. The following application of sealers must be within 18 hours after the primer is applied.

## Application:

1. Before use, allow the containers to come to room temperature and shake well, then decant the contents into a clean Pallmann VARNISH BUCKET.
2. Apply a full and even coat of Pallmann HYDRO DIAMOND onto the surface with the Pallmann ROLLER FOR WATER-BASED LACQUERS. A minimum of 2 coats must be applied in the direction of the grain. Allow the roller strokes to flow into each other. In heavy wear areas, apply a third coat.
3. Drying time until ready for sanding: approx. 3 hours
4. Before the final coat, an intermediate sanding with the Pallmann SANDING GRID grade 120 is required.
5. After use, clean tools with water
6. Regular maintenance improves the appearance and increases the wear life of the sealed surface. Therefore we recommend the upkeep with Pallmann FINISH CARE and Pallmann CLEAN at regular intervals following our upkeep instructions for sealed wooden floors.

## Consumption:

Recommended quantity per coat: approx. 100 – 130 ml/m<sup>2</sup>  
Coverage per litre: approx. 7 – 10 m<sup>2</sup>

## Important Notes:

- Shelf life minimum 12 months in original packaging when stored in relatively cool conditions. Protect from frost and do not expose to temperatures above 40 °C. Tightly reseal opened containers and use the contents as quickly as possible.
- Optimum conditions are 18 to 25 °C and relative humidity >35% and <65%. Low temperatures and high humidity lengthen, and high temperatures and low humidity shorten the drying time.
- For non-standard types of parquet timber (exotics), obtain technical advice.
- After a drying time of one day and more a intermediate sanding (grid 120) is necessary.
- Not suitable for the re-sealing of pre-finished multi-layer parquet or other types of coated wood.
- After application of the final coat, in moderate wear areas, the surface can be walked on after leaving overnight to dry.
- Leave freshly sealed surfaces at least 14 days before covering with natural fibre carpeting or other floor coverings, or loading with heavy objects.
- Leave freshly sealed surfaces at least 10 days before maintaining with Pallmann FINISH CARE.
- Regular maintenance with Pallmann Finish Care improves the appearance and increases the wear life of the sealed surface. Only damp-wipe the surface not wet! and avoid standing water.
- The following standards and notices are applicable and especially recommended: DIN 18 356 "Working with parquet".

## Protection of the Workplace and the Environment:

### GISCODE W2+

Water-based seal, solvent content less than 5%. Suitable as a substitute material for high solvent content materials used for parquet surface treatment. During application, the use of barrier cream is recommended. Keep out of the reach of children. Do not breathe spray. Use only in well-ventilated areas. After contact with eyes or skin, wash immediately with plenty of water. Do not empty into drains. After use, clean tools immediately with water and soap.

## Disposal:

Where possible, collect product residues and re-use. Do not allow into drains, watercourses or landfill. Empty, drip-free plastic or metal containers are recyclable. Containers with liquid residues and liquid waste product are Special Waste. Containers with hardened residues are Construction Waste.

The above information is based on our experience and careful investigations. The variety of associated materials and different construction and working conditions cannot be individually checked or influenced by us. The quality of your work depends, therefore, on your own professional judgement and product usage. If in doubt, conduct a small test or obtain technical advice. Observe the installation recommendations of the covering manufacturer.

The publication of this Product Data Sheet invalidates all previous product information. The respective updated version of this datasheet can be found on our homepage under [www.pallmann.net](http://www.pallmann.net)

