

# HEMEL® Ultramat®

**Description:** Water-based one/two component varnish for interior wooden surfaces and flooring

**Color:** Transparent

**Gloss:** Ultramatt (<8 Gloss)

**Type:** Water-based

**General Features:**

- High surface hardness and scratch resistance
- Beautiful natural finish and non-yellowing layer
- Odorless
- Elastic
- Better scratch and abrasion resistant surface with the hardener
- Lead-free
- Environmentally friendly
- Ready to use

**Packaging Size:** 2,5 L.

**Where To Use:**

- Suitable for all interior wood
- Wooden floors

**Product Data:**

Solid Content (1 component) (% weight):	31,8 ± 1
Solid Content (1+2 component) (% weight):	38,0 ± 1 (with hardener)
Viscosity (1 component) (DIN4, 20°C):	21" ± 2
Viscosity (1+2 component) (DIN4, 20°C):	35" ± 2 (with hardener)
Density (g/cm <sup>3</sup> ):	1,04 ± 0,02
VOC (g/L):	36
Application Method:	Brush or roller
Shelf Life (5-35°C):	1 year for unopened plastic can
Number of Coats:	2-3 coats
Coverage (m <sup>2</sup> /L):	12-18 m <sup>2</sup> with 1 coat depending on wood type
Drying Time (at 20°C and 40-65% relative humidity):	Recoat: 1,5-2 hours Complete Dry: 24 hours Full Cure: 7 days
Thinning:	Ready to use, does not require thinning. (At very high temperatures 2-3% drinking water may be added).

**Surface Preparation:**

- Do not use products like cellulose or polyurethane filler or primer before the application of the product. As a filler, mix the wood dust with the product and fill all gaps and joints of the parquet. Clean the excess paste after it has dried out.
- **New Wooden Floors:**
  - Clean the surface completely.
  - Sand the surface with parquet sanding machine or hand using sandpaper #120/150.
  - Thoroughly clean the generated dust and remove it completely from the surface with a vacuum cleaner.
  - Remove the remaining dust with a damp cloth.
  - HEMEL Universal Stain can be used for coloring the parquet floor. After the coloring, allow at least 6 hours to dry before varnish application.

- **Varnished Wooden Floors:**

- Remove the old varnish from the parquet completely with a scraping machine. Remove any dirt, oil, wood dust and old varnish residues from the surface.
- Thoroughly clean the generated dust and remove it completely from the surface with a vacuum cleaner.
- Remove the remaining dust with a damp cloth.

**Application:**

- The product is ready to use and does not require thinning. (At very high temperatures 2-3% drinking water may be added).
- For Better scratch and abrasion resistant surface, use the varnish with two component.
- Stir the product thoroughly before use and check its homogeneity. Repeat this process during the application.
- For preferred finish apply the product in 2-3 coats.
- **If hardener will be used;** first add the hardener while stirring the varnish by a spatula or stick. Do not perform the mixing process very fast; the hardener should be added slowly. The container used should be dry and clean. The mixing process should be completed after adding the hardener and left to rest for 10 minutes before application. The mixture should be applied within 5 hours.
- Apply the 1st coat by a brush or roller and leave it to dry for 2 hours.
- Perform a slight sanding with sandpaper #180/220 before applying 2nd coat.
- Apply the 2nd and 3rd coats in 2 hours intervals by sanding with sandpaper #180/220 between the coats.
- For any reason, if 8 hours exceeded between coats, wait 24 hours and sand the surface with sandpaper #220/240 (aluminium oxide or silicon carbide type sandpaper is recommended) before applying the next coat.
- Apply the 1st varnish coat first across the grain and then along the grain to leave equal and sufficient amount on parquet surface without sweeping too much.
- The area should be ventilated after the application to promote the drying.
- Allow 7 days for full cure.

**Maintenance (when the same product had been used before):**

- Do not apply the product directly on pre-coated surfaces.
- Remove the old varnish from the parquet completely with a scraping machine. Remove any dirt, oil, wood dust and old varnish residues from the surface.
- Thoroughly clean the generated dust and remove it completely from the surface with a vacuum cleaner.
- Remove the remaining dust with a damp cloth.
- Repeat same process as described in "Application" with 2-3 coats.
- Inspect annually and maintain as required.

**Instructions:**

- FOR INTERIOR USE ONLY.
- Do not apply products such as nitro, polyurethane basecoats or primers before HEMEL Ultramat.
- Keep product closed when not in use.
- The general application temperature of the product is between 15°C to 25°C at a relative humidity range of 40-65%.
- The moisture content of the wood should be below 12%.
- The area should be ventilated during and after the application to promote the drying.
- The product should not be applied when the weather or surface temperature is below 10°C.
- The varnished floor should not be cleaned with ammonia containing cleaning materials.
- The varnished floor can be stepped on after 24 hours. Allow 7 days before spreading carpet and/or cleaning.
- The product should be protected from freezing and stored at temperatures between 5°C to 35°C.
- Painting tools should be cleaned with soap and plenty of warm water after application.

**Safety Precautions:**

- USE WITH ADEQUATE VENTILATION.
- KEEP OUT OF REACH OF CHILDREN.
- Do not transfer contents to other containers for storage.
- Do not use empty plastic cans for other purposes.
- To avoid overexposure, open windows and doors or use other means to ensure fresh air entry during application and drying.
- Avoid contact with eyes and skin.
- Wash hands after using.
- FIRST AID: In case of eye contact, flush thoroughly with large amounts of water. Get medical attention if irritation persists. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately.
- Dispose of contents/cans in accordance with national regulations.
- Please refer to the Safety Data Sheet (SDS) of the product for health and safety information.

**Certificates:**

- EN71-3 Toy Safety Certificate