



**INSTALLATION INSTRUCTIONS,  
CLEANING & MAINTENANCE**

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FOR

SIGNATURE AUSTRALIAN RANGE  
HAMPTON RANGE  
SIGNATURE OAK RANGE  
GREENSHOOT PREMO



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# 1 "WOOD" IN WOODPECKER

## 1.1 PROPERTIES

Woodpecker Flooring is one of Perth's largest distributors of flooring. We pride ourselves on combining the personality, flexibility, and service of a family business with a range of products and level of professionalism that is on par with the largest flooring companies in the country. Catering solely to the WA market, our goal is to ensure that local customers have world class options for flooring, whether it be for a first home or a multi-million dollar design masterpiece.

Being involved in all aspects of the manufacture of timber flooring, we find ourselves working closely with local, environmentally conscience timber mills, large processing manufacturers, to internationally acclaimed architecture offices. Operating for almost 15 years, we have built a reputation for quality and our products can be found in all the finest flooring showrooms in the region.

# 2 CONSIDERATIONS

## 2.1 GENERAL REQUIREMENTS FOR HUMIDITY AND CLIMATES

Wood is a natural material that absorbs and emits moisture from its surroundings. Being so, its natural qualities is to always adapt to an equilibrium level of humidity in relation to the temperature and the relative humidity of the air. When dispatched from our warehouse in Perth, and delivered on site, Woodpecker Flooring are maintained to a moisture content of 8-12%. This corresponds to relative air humidity (RH) of 40%-50%. If the air humidity decreases, the wood will emit moisture and shrink in width, which may result in contraction gaps. Contraction gaps will always appear in winter, and at this stage, the floor has its most beautiful appearance. Generally, however, the goal should be to prevent the air humidity from dropping below 35% RH.

Below is an overview of the reaction of the floor planks to varying degrees of air humidity at a normal temperature of 18-25°C.

## 2.2 ON-SITE REQUIREMENTS

Carefully examine the flooring prior to installation for grade, colour, finish and quality. Ensure adequate lighting for proper inspection. If flooring is not acceptable, contact your distributor immediately and arrange for replacement.

WOODPECKER FLOORING cannot accept responsibility for flooring installed with visible defects. Prior to installation of any flooring, the installer must ensure that the job site and sub-floor meet the requirements of these instructions.

WOODPECKER FLOORING is not responsible for flooring failure resulting from unsatisfactory job site and/or sub-floor conditions. Flooring should be one of the last items installed in any new construction or remodel project. All work involving water or moisture should be completed before flooring installation, including painting as this will create an artificially high humidity level in the room.

Installing onto a wet sub-floor may cause permanent damage to the flooring. Permanent HVAC (Heating, Ventilation, and Cooling) should be on and operational and maintained between 18- 25°C with relative humidity of 30%-60% for a minimum of 14 days prior to delivery, as well as during and after installation of the flooring.

When installing over radiant heat, additional restrictions apply – see below.

Store Engineered flooring at the installation area with the boxes completely opened or removed from packaging to allow flooring to acclimate to the expected living conditions for 5 days minimum. Open boxes carefully to avoid damaging them in case repackaging is necessary for a return. Do not store directly on concrete or near outside walls. Flooring should be acclimated to the area in which it will be installed. Concrete sub-floors should be sealed, or covered, to retard vapour emissions.

HVAC systems should be operating normally throughout the acclimation period, and portions of the flooring should be distributed to acclimate in the actual rooms where each will be installed. Failure to acclimate properly may result in shrinkage or gapping, cupping or buckling. When checking the moisture content of WOODPECKER FLOORING engineered flooring, all moisture metres must be adjusted to specific settings for different species. For WOODPECKER FLOORING engineered Australian species flooring, use the setting for applicable timber.

## 2.3 SUB-STRUCTURES

Acceptable sub-floor types:

- CDX plywood - at least 13mm thick for joist spacing up to 40cm on centre, minimum 19mm thick for joist spacing greater than 40cm on centre (49cm maximum).
- Underlayment grade particleboard (minimum 18kg density) - floating/glue down only.
- Concrete slab - floating/glue-down only.
- Existing wood floor - must be smooth, level, well-adhered and, if gluing new flooring, unfinished.
- Ceramic tile – floating only.
- Resilient tile & sheet vinyl - floating/glue-down only; for glue-down tile/vinyl must be new and non-urethane-coated.
- Lightweight concrete (gypcrete) coated with latex primer - floating/glue down only (NOTE: WOODPECKER FLOORING provides no guarantee that lightweight concrete will remain structurally sound during the life of the floor. Separation of the flooring from the sub-floor caused by deterioration or fracturing of the substrate will not be considered a product failure.)

All Sub-floors must be:

- Dry and will remain dry year-round. Moisture content of wood sub floors must not exceed 12%, wood flooring moisture content must be within 2% of wood sub-floor moisture content. Concrete must not exceed 1.5kg per Calcium Chloride Test.
- Structurally sound.
- Clean: Thoroughly swept and free of all debris. For glue-down installations, sub-floor must be free of wax, grease, paint, sealers, old adhesives, etc., which can be removed by sanding.
- Level: Flat to 5mm per 3m radius Wood sub-floors must be dry and well secured. Nail or screw every 150mm along joists to avoid squeaking. If not level, sand down high spots and fill low spots with an underlayment patch. Concrete sub-floors must be fully cured, at least 60 days old, and should have minimum 6-mil poly-film between concrete and ground. If necessary, grind high spots down and level low spots with a quality levelling compound. Resilient tile and sheet vinyl must be well-bonded to sub-floor, in good condition, clean and level. Do not sand existing vinyl floors, as they may contain asbestos. If gluing down on concrete that is on or below grade, even if the Calcium Chloride test results are under 1.5kg, we highly recommended the use of a concrete sealer.

Remember, a concrete slab on/below grade that measures dry today may become wet in the future due to rising groundwater. Installing a moisture barrier now may be viewed as an insurance policy against concrete becoming wet in the future. WOODPECKER FLOORING is not responsible for site related moisture damage to flooring.

## 2.4 TOOLS

For all installation methods:

- Tape measure
- Wood or plastic spacers
- Chalk line
- Tapping block
- Crosscut power saw
- Pry bar or pull bar
- Pencil
- Hammer
- Wood chisel

For staple-down installation, you will also need:

- Pneumatic nailer/stapler appropriate for 14mm thick flooring and 35mm long 18 gauge cleats or staples (always test nailer/stapler to ensure that it is not damaging the flooring or causing dimpling before proceeding with installation).
- Air compressor
- Nail punch
- 6kg asphalt saturated felt paper or equivalent

For floating installation, you will also need:

- 3mm thick underlay.
- 6-mil polyfilm (if installing on or below grade)
- Clear waterproof packing tape

- 3M 2080 Long Mask Blue Tape
- EuroBond® D3 Tongue and Groove Glue, or Franklin Titebond® II

## 3 HUMIDITY / MOISTURE

### 3.1 HUMIDITY AND FLOORBOARDS

General requirements for humidity and climate:

Measuring point	Level
Room temperature	18-25°C
Room humidity	40% - 50% RH
Concrete moisture content	Max. 85% RH when a vapour barrier is used. If you leave out the vapour barrier, the residual moisture content must be less than 65% RH. NB: 85% RH corresponds to approximately 2.0 cm depending on the type of concrete etc. Be aware of any restrictions in the national standard requirements.
Humidity in joists/beams	Max 10-12%
Humidity in plywood/chipboard	Max. 8-10%
Vapour Barrier	Min. 0.20 mm PE foil

Humidity should be one of the main focal points in connection with the design, planning and installation of any WOODPECKER FLOORING plank floor. Construction work requires proper drying, and materials such as plaster and wood suffer considerable damage if they are exposed to high levels of humidity. Unfortunately, those responsible for construction projects often compromise on the drying phase, which results in severe damage. Construction humidity is the cause of major delays as well as over-expenditure, but fortunately, this is avoidable if humidity is included in the planning process from the design stage. Make realistic timetables, plan the dehumidification process, and use the right type of concrete.

### 3.2 AIR HUMIDITY

If the air is fully saturated with steam, the relative air humidity (RH) is 100%. A relative air humidity of 50% means that the air contains 50% of the maximal amount humidity it can contain. When it rains, the relative air humidity exceeds 100%. Air humidity depends in part on the building's location, structure, heating and ventilation.

The higher the temperature, the more water the air can hold. When cold outside air enters the building and warms up, the air dries. Dry air absorbs humidity from the plank. This causes the plank to contract and in turn leads to contraction gaps between the planks. The gaps appear when the air is driest, and the lower the air humidity, the larger the gaps.

### 3.3 DRYING OF CONCRETE

In simple terms, the quality of the concrete can be expressed in the ratio of water to cement (w/c). For example, concrete that contains 150 litres of water and 215 kg of cement per m<sup>3</sup> has a w/c ratio of 0.70. Once the concrete has hardened, about 64 litres of free water remain in the concrete. Eliminating this water is a time-consuming process, which is highly dependent on the room temperature, air humidity, one or two-sided drying, the quality of the concrete, the thickness of the concrete layer and the substrate. A traditional concrete floor has a w/c ratio of 0.65 and is often cast in a 100 mm layer on a polystyrene base.

If the air humidity is kept at 50% RH, and the temperature at 20 °C, it will take 3-4 months to achieve a concrete moisture level of 85% RH. But often, the temperature is lower, and the air humidity considerably higher, which makes it necessary to extend the drying period by several months. Drying traditional concrete to a level of 85% RH should therefore be expected to be a very lengthy process that can easily last 4-6 months. And even that can only be achieved if the building has been sealed off quickly to initiate the dehumidification process.

### 3.4 HUMIDITY IN THE SUB-STRUCTURE

Joists, beams and substructures consisting of existing beams, plywood or chipboard must be dry before the new floor is installed. In renovation or restoration projects, existing substructures made of planks or beams may have absorbed humidity during the construction period. Always check the humidity of the substrate/substructure before installing the new floor, and make sure that it does not exceed 12% for joists/ beams and 10% for plywood/chipboard and plank substructures.

### 3.5 DAMAGE

Long-term impact of humidity will cause the planks to warp, and the gap between the floor and the wall will disappear. In worst case scenarios, walls, joists etc. may be dislocated when the planks expand. When that happens, it is probably necessary to re-install or replace the floor. With less severe humidity damage, the warp will be fully or partially eliminated over time, and sanding and re-finishing the floor may be sufficient.

### 3.6 MEASURING RESIDUAL HUMIDITY

When installing a WOODPECKER FLOORING make sure that the residual humidity in the concrete does not exceed 85% RH. It is difficult to carry out an accurate measurement of concrete moisture, and surface hygrometers are not nearly accurate enough. You need to measure the moisture content in the middle of the concrete layer. This may be done by placing a sensor in a hole drilled into the concrete. After some time, the sensor achieves moisture equilibrium with the concrete, and the relative humidity can be determined. A more accurate measuring is to carve a piece of

concrete out of the middle of the concrete layer and carry out a humidity test in a laboratory. The finding of this test is documented in a humidity report, which can serve as part of the contractor's quality assurance process. A humidity measurement is a very cost efficient insurance that may save the contractor and the client substantial costs.

## 3.7 LIABILITY AND WARRANTY

The responsibility for drying the concrete is often in a grey zone, which means that no one feels ultimately responsible. Client and contractor need to agree who is responsible and agree not to install the floor before WOODPECKER FLOORING's requirements are met.

Expansions, warping and other deformation of the floor planks due to high levels of humidity are not covered by WOODPECKER FLOORING Warranty.

Be realistic in your assessment of the drying time for the concrete. At WOODPECKER FLOORING, we will remind you of the importance of concrete moisture, and we will only reluctantly deliver the planks before the building is dry. Instead, we offer to postpone production and delivery, and normally, we also have the storage capacity to store the planks until the conditions are right.

## 4 INSTALLATION METHODS

### 4.1 GENERAL INSTRUCTIONS

Make sure sub-floor is tested for moisture first and is properly prepared. Since engineered timber floor expands with any increase in moisture content, always leave at least a 13mm expansion space between flooring and all walls and any other permanent vertical objects, such as pipes and cabinets. PLEASE NOTE: Engineered floor expands and contracts along its length as well as its width, so it is critical to leave expansion space around the entire perimeter of the floor. This space will be covered up once you reapply base mouldings around the room. Use wood or plastic spacers during installation to maintain this 13mm expansion space. No area of connected flooring can span greater than 7.5m in width or 15m in length without adding spacers or compensating for additional movement. For larger spans, install T-mouldings or use spacers during installation that will allow the flooring to expand and contract normally. More or less spacing may be needed depending on geographical area and specific site conditions. Before laying floor, install approved underlayment or adhesive as outlined in this chapter in the section specific to your chosen installation method.

Begin installation next to an outside wall. This is usually the straightest and best reference for establishing a straight working line. Establish this line by measuring an equal distance from the wall at both ends and snapping a chalk line. The distance you measure from the wall should be the width of a plank plus about 13mm for expansion space. You may need to scribe cut the first row of planks to match the wall in order to make a straight working line, as most walls are not straight. Work from several open boxes of flooring and "dry lay" the floor before permanently installing it. This will allow you to select the varying grains & colours and to arrange them in a harmonious pattern. The actual floor may differ in grain and colour from the samples used in selecting the

product. This is not a product defect. It is the installers' responsibility to work with the end user to determine the expectations of what the finished floor will look like. If the range of colour or grain in the shipment does not appear satisfactory after opening a few boxes, do not begin installation. Contact your dealer immediately to arrange a return. When laying flooring, stagger end joints from row to row by at least 20cm. Avoid 'H' patterns, where planks just two rows away from each other end in the same location, by starting each row with a plank cut to a random length. When cutting the last plank in a row to fit, you can use the cut-off end to begin the next row. If cut-off end is 20cm or less, discard it and instead cut a new plank at a random length (greater than 20cm) and use it to start the next row. Always begin each row from the same side of the room.

Start with the groove edge facing the wall. To draw planks together always use a tapping block, as tapping the floor itself will result in edge damage. Never apply pressure to the groove edge of the flooring – only use the tapping block against the tongue. When near a wall, you can use a pry bar or pull bar to pry close the side and end joints. Take care not to damage edge of flooring. For floating and glue-down installations, use spacers and 3M® 2080 Blue Tape to hold planks straight & tight until the adhesive sets. Do not allow tape to remain on floor longer than 1 hour and remove tape prior to cleaning floor with a cleaner or solvent.

Do not apply tape to flooring that has been previously wiped with a solvent. After installing three rows, recheck your spaces to ensure that the proper 12mm expansion space is being maintained. When you reach the last row, remember to leave 13mm expansion space between the flooring and any vertical surface such as pipes or cabinets.

## 4.2 GLUE-DOWN INSTALLATION

Woodpecker Flooring recommends using a premium, water-free, low-VOC, moisture cure urethane adhesive, along with appropriate prep. Suitable adhesives include Taylor MS+, and Bostik TKO. Woodpecker Flooring does not guarantee or warrant the performance of third party installation products, and specific questions about their use should be directed to the manufacturer. Carefully review installation instructions for sub-floor preparation, proper trowel size, required temperature/humidity conditions, and the adhesive open/set time before beginning installation. Working properties, proper usage, and set times may vary between brands so it's important to follow the label instructions specific to your choice (not all adhesive and sealers are cross-compatible). Trowel adhesive onto a section of sub-floor that can be covered with flooring within the working time recommended for your conditions.

Lay the first row of flooring into the adhesive with tongue facing the wall, and continue laying floor as described above under "General Instructions-All Methods". Always check your working lines to maintain alignment. Use spacers to help ensure the installed flooring does not move on the wet adhesive. 3M Long Mask 2080 Blue Tape may be used across rows to hold planks tight while the adhesive sets (do not leave this tape on the floor more than 1 hour, do not apply to flooring that has residue from solvents or mineral spirits, and remove tape carefully before cleaning with any type of liquid). Periodically lift a plank from the wet adhesive to ensure full transfer to at least 90% of the planks. When the first section is finished, continue to spread adhesive and lay flooring section by section until installation is complete.

USE A CLEAN, DRY CLOTH TO IMMEDIATELY REMOVE ANY ADHESIVE FROM THE FLOORING SURFACE. If adhesive cannot be completely removed with a dry cloth, use mineral spirits. Never let flooring adhesive dry completely on the finished surface. Within the adhesive working time, walk each section of flooring to make sure it is well bonded to sub-floor. Flooring planks on the

perimeter of the room may require weight on them until the adhesive cures enough to hold them down.

### 4.3 STAPLE/NAIL DOWN INSTALLATION

Make sure sub floor is tested for moisture content first and is properly prepared. Prior to installation, lay 6kg asphalt roofing felt or equivalent over the entire sub floor and follow the manufacturer's instructions. Use a flooring stapler/nailer of your choice that is appropriate for 14mm thick flooring and test to make sure that stapling/nailing will not cause dimpling (localized raised edges) in the finished floor. Note: be sure to look at the face of the installed flooring at a low angle from a distance to see if dimpling is occurring, as it is hard to see when directly above the floor. If you see dimpling, STOP and adjust the stapler/nailer shoe, angle and placement of staple entry, or air pressure until test planks confirm that dimpling is no longer occurring. Woodpecker Flooring is not responsible for replacing material that has been installed with dimples.

The correct air pressure needed to install this flooring will vary with sub-floor type, but generally ranges between 55 and 95 psi. Regardless of air pressure, staples or cleats larger than 18 gauges (i.e., 15 gauge) will damage this flooring and void the warranty. Using nylon coated staples or cleats will help ease penetration. Whenever surface nailing of Engineered flooring is necessary, it's advisable to drill a pilot hole for the nail. This will allow the nail to countersink better, while minimizing deflection and possible damage to the floor. This is also advisable if nailing coordinated molding and trim.

For the first and second starting rows: lay first plank inside chalk line with groove edge toward the wall. Since it can be difficult to get the nail gun in place next to the wall, you may wish to glue down the first rows rather than face-nailing them and leaving unsightly nail holes that must be filled with putty. Make sure the starting rows are straight and drawn tight. After gluing down these rows with Liquid Nails® LN-901 or a similar product, set weight on top of them and allow them to set securely before commencing stapling/nailing the additional rows. Subsequent rows: Lay by using floor nailer/stapler to blind-nail top inside edge of tongue at a 45 degree angle. Nail each board every 15-20cm and 19mm from each end (to prevent splitting). Remember to stagger end joints from row to row at least 20cm apart and use a tapping block to fit boards together. Periodically check (looking from a low angle) to make sure that the stapler/nailer is still not causing dimpling. It may be necessary to face-nail and or glue down the flooring in doorways or tight areas where the nailer/stapler can't fit. The last two rows will need to be face-nailed or glued in the same manner as the first two rows.

### 4.4 FLOATING INSTALLATION

Heavy objects such as counters, kitchen islands, and large stoves or refrigerators should be in place prior to the installation of a floating wood floor. Compressing a floating floor against the sub-floor with excessive weight could inhibit the floor's ability to move in response to changes in humidity and may result in gapping or cupping.

**LAYING UNDERLAY:** Lay 6mm Polyfilm with seams overlapped 20cm. Fasten seams every 45-60cm with clear waterproof packing tape. Run the outside edges of Polyfilm up perimeter of each wall 10cm. Trim after flooring installation is complete. Laying pad: lay QuietWalk Floating Floor Pad, or equivalent 3mm thick underlayment, by butting edges, not overlapping. Tape the full length of the seam with clear waterproof packing tape. Leave 13mm space between pad and all walls and permanent vertical fixtures.

**SIDE AND END GLUING:** The engineered boards must be side and end glued using exterior grade, cross linked PVA wood glue. Apply glue in the groove of each plank as you install. Fully glue the end joint. It is very important to fill the groove to its full thickness. This will ensure proper transfer to the tongue of the adjoining planks and achieve a glue bond on both the TOP and BOTTOM of the groove. Failure to follow proper glue schedule will void all warranties and may result in an excessively noisy floor. If any excess glue squeezes up to the finished surface, wipe off using a paper towel or cloth.

## 5 FINISHING (DISREGARD FOR ALL PRE-FINISHED FLOORS)

### 5.1 BUILDING

The building must be dry and free of construction works. You should never commence the finishing process until the building is sealed, dry and warm, and the humidity levels are under control. It is recommended that the temperature be between 18-25°C, and the air humidity be between 35% and 65% RH and must not exceed 50% RH in winter.

### 5.2 FLOOR

The floor must be completely smooth and well sanded. If the floor is not sanded correctly or evenly, it will affect the result in an unintended finish. The moisture content of the wood must not exceed 13-14%. If the moisture content is too high, there is a risk that the planks will reject the finish. The surface must be dry and clean and must be vacuumed just before the finishing.

### 5.3 EQUIPMENT AND TOOLS

Well-maintained quality tools are critical for a good result. Your installer is liable for floors which have been installed or finished with ill-equipped tools.

### 5.4 OILS

Oil finishes gives the floor a beautiful, warm and rich appearance. Generally speaking an oil floor will help achieve a matte looking floor quality. The oil leaves a strong surface that is easy to clean. It is recommended that floors treated with oil finishes are refinished regularly to re-establish the oil layer

and reseal the surface. If the oil coat is not worn through, it is not necessary to sand the floor before it is refinished. You may refinish smaller areas with oil, but the most uniform result is achieved by treating the entire surface. Please read the product disclosure statements issued by each finishing brand to help achieve the best possible outcome for your flooring product.

## 5.5 LACQUERS

A lacquer finish seals the surface completely. It produces a surface that does not require refinishing regularly, however will require the same level of care and maintenance as any other finish recommended.

It is highly recommended to use lacquer finishes for commercial purposes where time or other constraints to not allow for frequent washing.

If the lacquer is scratched, dirt may penetrate into the plank and cause damage. It is therefore necessary to repeat the lacquer finish as needed. The lacquer finish must be renewed before the lacquer coat is worn through. Otherwise, you will have to sand the entire floor and refinish with lacquer. Spot repairs of a lacquered surface is unlikely to produce a good result.

## 6 CLEANING & MAINTENANCE

### 6.1 MAINTAINING YOUR FLOOR

It is very important to consider that the floor needs maintenance to stay beautiful. Floor washing must be done as needed and depending on the use and the location of the room. Entrance halls and kitchen floors normally see the heaviest use in the home and therefore require more cleaning than the other rooms of the house. We recommend contacting our head office for cleaning supplies on hand. Each finish varies with the approach to maintaining a healthy, beautiful looking floor.

For all oil-finished floors, we recommend that you re-apply oil as needed. WOODPECKER FLOORING recommends *WOCA Denmark*. With the specially developed WOCA flooring products, wood floors are kept beautiful and well protected. We offer an extensive range of products for pre-treatment, basic finishing and maintenance for different types of flooring finishes and different species of wood.

Floor lacquer is not an indestructible surface, and depending on use, a lacquered floor will therefore have to be refinished at intervals. Keep an eye on the floor to make sure that the lacquer and oil coat is not worn through. Normally, repairs are not possible, and it will therefore be necessary to sand the floor down to the bare wood and refinish it if the top coat is penetrated.

## 6.2 NATURAL SOAP

Natural Soap is ideal for cleaning and maintenance of oiled, waxed and Natural Soaped surfaces. The Natural Soap is especially ideal for floors, furniture, table tops and panels. The oily Natural Soap forms a protective film on the floor.

Please go to [www.wocadenmark.com/shop/product/natural-soap](http://www.wocadenmark.com/shop/product/natural-soap)

1	Daily cleaning is made with vacuum cleaner or broom. The frequency of floor cleaning depends on the wear on the floor.
2	Natural Soap is shaken carefully before use.
3	125 ml Natural Soap is mixed into 5L of lukewarm water. It is recommended always to work with 2 buckets: one with soap water and one with rinsing water. Clean the floor with minimum quantity of water – leave soap water on floor briefly in order to dissolve dirt. Remove dirty soap water with hard-wrung mop or cloth and rinse out in bucket with rinsing water.
4	Always wipe floor with soap water on hard-wrung mop or cloth in order to re-establish the protective Natural Soap film.

## 6.3 MAINTENANCE OIL

Maintenance Oil may be used for the maintenance of all oiled wood surfaces and is especially suitable for the regular maintenance of oiled wood floors. Product, room and floor temperature should be between 15°C–35°C. Ensure good ventilation at all times during the application and drying time.

Please go to [www.wocadenmark.com/shop/product/maintenance-oil](http://www.wocadenmark.com/shop/product/maintenance-oil)

1	Clean the floor with 125 ml Wood Cleaner mixed into 5 litre water. Leave the floor to dry for at least 8 hours. The floor must be completely dry.
2	Shake the container carefully.
3	Apply approx. 1 dl oil per 4 m <sup>2</sup> with pad, paint roller, cotton cloth or use polishing machine for large surfaces.
4	It is important that the Maintenance Oil is carefully polished into the wood. Continue polishing until the wood appears saturated and the surface looks uniform.
5	Wipe the floor with clean, dry cotton cloths before proceeding with the next section of floor to be finished. The floor should not appear wet and there should not be any excess oil left on the surface after polishing.
6	Continue stepwise till the floor has been finished.
7	When polished with polishing machine the floor will be pre-hardened after approx. 4 hours at 20°C (68°F) and may cautiously be taken into

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use. Manually polished floors may be taken into use after 24 hours. Do not expose the floor to water during hardening time of 24 hours.

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8 Clean tools in Solvent.

## 6.4 OIL REFRESHER

Oil Refresher is used for regular cleaning and maintenance of oiled wood floors. Oil Refresher, Natural is typically used for natural oiled and colour oiled floors and Oil Refresher, White for white oiled wood floors. Oil Refresher combines efficient cleaning with re-oiling as addition oil is penetrating into the wood of the floor forming a mat protective layer in the surface.

Please go to <http://www.wocadenmark.com/shop/product/oil-refresher>

- 1 Shake the bottle well before use.

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- 2 The floor must be free from dust before treatment.

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- 3 Mix Oil refresher with lukewarm water:
  - For traditionally oiled floors 1:20 (250ml Oil Refresher into 5 litres of water).
  - For UV-oiled and oil-waxed floors: 1:40 (125ml Oil Refresher into 5 litres of water).

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- 4 Treat with a light wrung floor cloth or mop lengthwise of the floor. Immediately afterwards, dip floor cloth or mop into mixture and wipe the floor with hard wrung floor cloth or mop again lengthwise of the wood. Use two buckets - one with Oil Refresher mixed with water and one with rinsing water. It is recommended to clean an area of approx. 10 m<sup>2</sup> at the time. By doing it this way, the floor is exposed to moisture for a short period.

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- 5 Leave the floor to dry for approx. two hours before use.

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- 6 If a light shine is wanted, polish the dry floor with a white pad.