



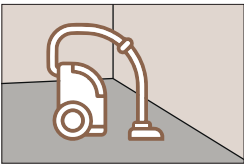
INVICTUS®

HEAVENLY COMFORT · INVINCIBLE FLOORING

INSTALLATION GUIDELINES INVICTUS LOOSELAY

INVICTUS LooseLAY is a luxury vinyl floor, suited for both commercial and residential use, which can be installed over many existing hard floors. It is not suited for installation outdoors nor in rooms that will be continually wet. It is essential that these installation guidelines are followed carefully to ensure a quality fit.

1. PREPARATION



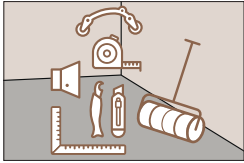
TRANSPORT AND STORAGE

For both transport and storage the floor boxes must be stored on a flat surface. Boxes must be stored inside. Do not store the cartons in very cold (<2°C) or very warm (>40°C) or humid places.

ACCLIMATISATION

It is important to **store the planks and the tackifier for at least 24 hours before installation, at room temperature (18-25°C)** in the room where the installation is to take place. This room temperature should be maintained throughout the installation and for least 48 hours after installation. **The subfloor temperature should be above 15°C.** If the flooring was stored in temperatures below 10°C right before delivery, the acclimatisation period should be extended to 48 hours. Your Invictus floor should be stored flat in its packaging, in small neat piles, max. 5 boxes high.

To condition, the boxes must be kept away from direct sunlight, windows, heaters or air vents.



TOOLS

Utility knife and blades, pencil, chalk line, try square, tape measure/folding rule, damp cloth, hand roller and 50 kg roller, spatula and tackifier adhesive.

2. AREAS OF USE & SUBFLOOR REQUIREMENTS

Invictus LooseLAY is **not suited for outdoor use** or in areas with **large temperatures variations**. Protect your floor from long-lasting exposure to direct sunlight by using appropriate window coverings. Extreme solar radiation, heat and extreme temperature fluctuations can cause damage.

Ensure that the indoor temperature is always kept above 6°C and ideally between 18 and 25°C. Invictus looseLAY is not suited for **unheated spaces** such as campers.

Subfloor preparation and floor installation should always comply with the applicable **national regulations** and installation standards.

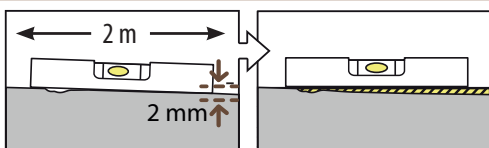
SUBFLOOR REQUIREMENTS

Careful subfloor preparation is essential for an excellent result. The subfloor must be hard, clean, dustfree, dry and even. Invictus LooseLAY can be installed on concrete, stone and many other hard subfloors, which have been suitably prepared.

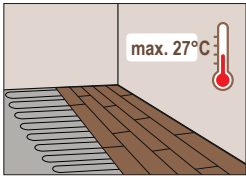
Irregularities in the subfloor will telegraph through the new floor and must be suitably prepared before installation.

Make sure the subfloor is free from chemical substances, remove all traces of plaster, paint, glue, oil, grease, etc. and vacuum.

Although Invictus LooseLAY is resistant to moisture, **subfloors must be checked for moisture problems:** Invictus LooseLAY must be laid only on subfloors with moisture level below 75%RH when tested with a hygrometer. If hygrometer readings are above 75%RH, the proper remediation steps should be taken before installation f.e. check if a primer or sealer is needed; install a surface damp proof membrane (DPM), regardless if these are old or new floors.



Make sure floor level deviation is a maximum of 2 mm per 2m. If these margins are exceeded, the subfloor imperfections must be evened out with a **suitable filler or levelling compound**. When using **products for subfloor preparation**, always follow the manufacturers' recommendations and the national standards for resilient floorcoverings.



UNDERFLOOR HEATING

It is important that **the temperature at the floor surface does not exceed 27°C**.

Invictus Click floors are suited for use with :

- **Warmwater** underfloor heating
- **Electric heating systems** with a maximum performance of 70 W/m².

Only underfloor heating systems with heating components embedded in the subfloor are suitable.

- **Heating films/wire or infrared systems** that are placed on top of the subfloor are not suitable. The heating elements **must be fully embedded in a well-bonded and suitable levelling compound of minimum 9mm**.

The floor must be fully supported by the heating system, to achieve a homogenous temperature of the floor. If the heating system is integrated into the subfloor, the heat will be distributed evenly over the entire surface.

Care should be taken as a very quick increase in heat will cause damage to the floor. The surface temperature must never exceed 27°C.

- **Reversible heating/cooling systems or floor cooling systems**

Invictus Looselay is suitable for reversible heating/floor cooling systems. Crucial is to have the right installation and material temperature of 18°C. It is important that heating/cooling systems are equipped with an advanced control and safety system in order to prevent internal condensation: **dew point regulation**. To avoid damage to the floor, the supply temperature of the cooling water must not be below the so-called dew point temperature. Lower temperatures will produce condensation and damage the floor covering: warping, gapping, fungus. It is important to **keep the subfloor 3 degrees above dew point** (dew point can be measured by these systems, with digital Dew Point Meters/Hygrometers).

The underfloor heating must be returned to **15°-18°C** 48 hours before installation and maintained at this temperature during installation.

48 hours after installation, you can re-start the underfloor heating, by gradually increasing the temperature by 1-2°C daily (warmwater underfloor heating, electrical systems), up to a maximum floor temperature of 27°C. Ideally, avoiding full operating temperature for 7 days. (Follow the current standard of EN1264-2). See separate document '**Underfloor heating Protocol**' on our website. Always take care of gently heating-up and cooling-down of the heating system. Rapid temperature changes may lead to joints and openings of the floor. Avoid hot spots and thermal blocks on the surface.

DIFFERENT SUBFLOORS

New concrete floor, cement based screed, anhydrite (calcium sulphate)-based screed

Let **new concrete** dry sufficiently as it will contain a high percentage of residual moisture. When **RH is below 75%** (i.e. dry), clean the floor to remove contamination. The subfloor must be cleaned of grease, wax and any other foreign matter that could affect the adhesion. No solvents should be used to remove old adhesives.

In case of anhydrite subfloor: laitance must be removed. Check if a primer or sealer is necessary.

Always record and keep your moisture content results.

Residual moisture content from the subfloor:

For unheated screeds: < 2.0% CM (75% RH) in case of cement & < 0.5% CM in case of anhydrite

Underfloor heated screeds: < 1.8% CM (75% RH) in case of cement & < 0.3% CM in case of anhydrite

Old Concrete or cement screed

RH < 75% : Must be free of all paint, grease, adhesive residue, wax, or any other foreign substance. Prime the surface and apply levelling compound of minimum 3mm.

RH > 75% : contact your retailer for information on surface DPM (Damp Proof Membrane) requirements.

Repair surface imperfections with an appropriate repair compound and check if a primer or sealer is needed.

Vacuum the subfloor afterwards to remove all debris.

Ceramic, stone tiles

Check the moisture level, and contact your retailer in case of moisture problems.

It is necessary to fill the grouts of a tile subfloor if > 1mm deep. Check the floor for loose and broken tiles. Remove loose pieces and fill deep cracks with quick drying mortar, degrease and apply levelling compound (minimum of 3mm). A second top coat may be required to nullify sinking of levelling compound over old tile grouts.

Soft and resilient floorcoverings

Such as carpet, cork, cushion vinyl, ... should be removed as well as the adhesive residues by scraping. No solvents should be used to remove old adhesives. Apply levelling compound.

Compact PVC & Linoleum floors

First examine the condition of the floor: the flooring must be fully adhered, hard and level. If the floor condition is good, degrease the floor and if needed, apply the right primer before installing your Invictus Looselay with the tackifier.

In case of loose or damaged parts: these parts should be removed and leveled with a suitable leveling compound.

Wooden subfloors

Fix down all loose boards, replace worn/broken boards and overlay the floor with minimum 6mm thick plywood, which must be firmly fastened (fixed at max. 150mm centers). Use a suitable finishing compound or a fibre reinforced smoothing compound to level out the plywood joints (to make sure they will not show through when the flooring installation is completed).

Laminate floor covering (and its underlay), parquet floors glued directly onto concrete or floating parquet must be completely removed.

Looselay can be installed on fully glued, level parquet floors that are well ventilated (at least 5 cm of ventilation space between the parquet and the subfloor).

Raised access floors

Raised floors must be smooth, even and clean. Panels with a steel top must be degreased. Old adhesive residue must be removed.

Check if the raised floor panels are correctly installed: uneven or loose floor panels must be readjusted before installation.

Gaps between panels should not exceed 1 mm Height differences between adjacent panels must not exceed 0.75mm.

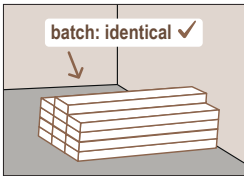
Raised edges or gaps between panels will be visible through the Looselay flooring, especially in slanting light.

If the raised floor is in poor condition (unstable or poor quality panels): it should be overlaid with 6mm plywood boards before starting the Invictus Looselay installation.

Avoid that the Looselay tile edges fall on or close to the edge of the raised access panel, this helps to overcome height difference between panels.

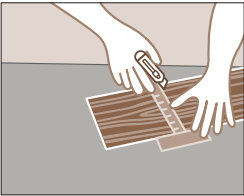
In case of doubt regarding the subfloor condition, seek professional help or contact your retailer.

3. BEFORE YOU START

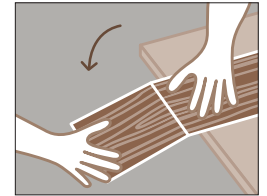


Ensure that your flooring is the correct design and color and **check all boards for visible defects**, both before and during installation. Planks with defects may not be used. Installation of flooring implies acceptance of materials. Use only a single production batch number for each installation, as we cannot guarantee a shade match between different batches. Always keep the production batch number (printed on the box), together with your order form/invoice. Consider saving a few planks for any potential future repairs. **Make sure that you mix panels from different boxes**, in order to minimize shade variations. This will ensure a more natural looking floor.

4. INSTALLATION



Your Invictus Looselay floors can be **cut using a sharp metal blade** and ruler. Cut the boards decor side up. **Cutting loss:** add an additional 5-10% for standard (straight) installations.



1. Decide your **installation direction**: normally the planks/tiles are installed perpendicular to direct sunlight sources, including large windows, doors, etc. Measure the room carefully. Calculate how the partition of plank or tiles will be across the width of the room/area and **mark a 100% straight line in the middle of your the floor**. Installation is mostly started from the middle of the room, at this central line.

2. **Divide your floor in different sections**, make sure that the section has the right size: meaning that the planks can be installed on the tackifier within the 'open time'. Do not spread tackifier on a section greater than can be processed within the working time. Read the glue manufacturer's instructions prior to using the tackifier to know the exact waiting time.

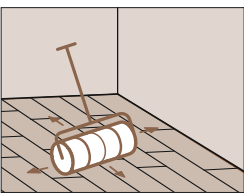
3. **Apply the tackifier on the floor** according to the manufacturers recommendations. Spread the right amount evenly over the subfloor, **using the right roller / spatula. Pay special attention to the edges of the room**. Let it tack-off until it reaches its ideal bonding strength. To avoid any permanent bonding: it is essential to allow sufficient waiting/ open time for the tackifier. The open time depends on the temperature, humidity level, the porosity of the subfloor and also the amount of tackifier used. Depending on the type of subfloor, using a primer can be recommended by the tackifier manufacturer.

4. **Lay the Invictus planks/tiles into the tackifier**. It is critical to **keep the first rows straight and square**, as they are the "foundation" for the rest of the installation. Check regularly for straightness. It's important that the Invictus Looselay planks and tiles are laid without tension, **tightly** against each other and against the walls, fixed elements or existing skirting boards.

5. To ensure full contact with the tackifier, **immediately press every plank or tile with a hand roller**.

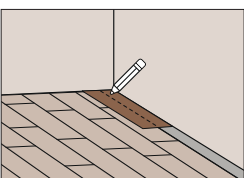
6. **Clean excess adhesive** immediately before it is allowed to dry, using a damp cloth. Never use detergents.

7. The cut-off part of the last plank of a row can be used as first plank in the next row. This will help in maintaining a random appearance. Cut the planks or tiles to fit against the wall. The cut-off part should be at least 1/3 of a plank.



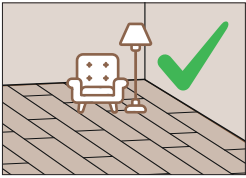
8. When a section is installed, roll each section **with a 50 kg roller**. Roll several times, in different directions, during the tackifier working time to ensure a good adhesive transfer.

9. **Repeat steps 3 to 8** until the entire room is completed.

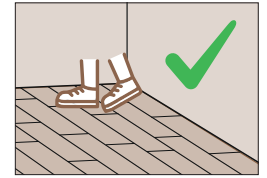


10. To install the **last row**: Place a new plank upside down up to the wall and mark the plank. Cut the marked plank to size and fit in place. This method should be repeated for each plank until the last row is complete.

WAITING TIME BEFORE USE



You can walk on your Invictus floor immediately after installation. For most tackifiers, also furniture can be installed right after installation (check manufacturer's instructions).
You can clean the floor with a damp mop, but prevent the floor from coming into contact with water for the first **48 hours** after installation, so that the bonding strength will not be affected.



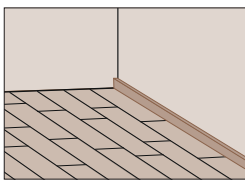
5. RECOMMENDED GLUES

See list underneath. Only the recommended tackifiers should be used – others may fail.
 Always follow strictly the glue manufacturer's instructions

In areas that may be subject to excessive direct heat 45°C or more (e.g. fully glazed sun facing conservatories, or high temperature fluctuations) the floor must be installed with special 'high temperature' permanent adhesive (see on the website: Recommended Glues dryback).

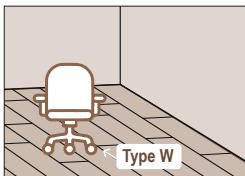
BRAND	ADHESIVE	SPECIFICATIONS	METHOD	CONSUMPTION /m ²
MAPEI	Ultrabond Eco Tack 4 LVT	tackifier	fur/micro fiber roller	15 kg: 90-110 g/m ² (short hair roller)
THOMSIT	Thomsit K 145 DesignTack	tackifier	nylon roller (pile: 7 mm)	10 kg: 125 m ² ; 80g/m ²
EUROCOL	Eurocol 542 Eurofix Tack Plus (EC1)	tackifier	low absorbent subfloor:	10kg: 200-100m ² ; 50-100g/m ²
			micro fiber roller	
			highly absorbent subfloor:	10kg: 100-67m ² ; 100-150g/m ²
			micro fiber roller	
UZIN	UZIN U 1000	tackifier	low absorbent subfloor:	10kg: 166-125m ² ; 60-80g/m ²
			foam roller	
			highly absorbent subfloor:	10kg: 100-77m ² ; 100-130g/m ²
			micro fiber roller	
UZIN	SIGAN	planks ≤130cm, on mineral subfloors, in combination with Planus primer	double-sided adhesive film	roll 75cm x 25m
UZIN	SIGAN ELEMENTS PLUS	high size stability, on mineral subfloors, epoxy dampscreens, chip boards, OSB, alu and steel, in combination with Planus primer	double-sided adhesive film	roll 75cm x 25m

6. FINISHING



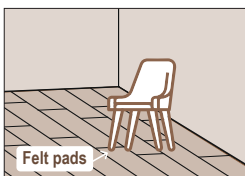
Invictus Looselay flooring must be installed as close as possible to the walls. Use Invictus skirtings for a perfect result.

7. MAINTENANCE For more detailed information: please read our 'INVICTUS MAINTENANCE & CARE GUIDE' online



DOORMATS

To keep your floor in good condition, it is important to place **non-rubber backed doormats** at all entrances, to keep dirt, sand and water off of the floor. Placing doormats will eliminate abrasive particles driven by footwear and will extend the life of your floor. Do not use rubber-backed mats, as long-lasting contact with rubber can cause permanent discoloration. Never place doormats on a wet floor.



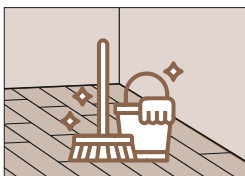
FELT PADS / NO RUBBER

Use protective caps on furniture legs. Rolling office chairs should be fitted with soft, **non-rubber casters**, to avoid permanent damage to your floor. **Use felt or protective pads**, especially for furniture or other items that contain rubber and directly touch the floor (f.e. fitness appliances). Prolonged contact with rubber will cause permanent discoloration.



MOVING FURNITURE

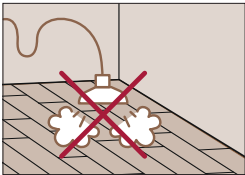
Avoid dragging or sliding heavy items or furniture across the floor. Use protective boards or appropriate furniture movers designed for use over hard surface flooring to move your furniture.



CLEANING

Initial Cleaning

First remove all dirt and dust from the flooring with a brush or vacuum cleaner. Then clean with water and a neutral pH detergent, until the water stays clean. We recommend to use our Invictus Cleaner, other cleaning products may contain agents that damage resilient floor surfaces.



Regular cleaning

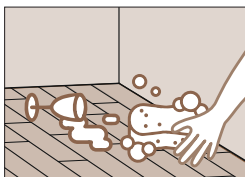
Daily/ weekly maintenance by **sweeping, vacuum or dust mopping or using a damp mop**. (do not use vacuums with metal heads). Regularly sweeping removes loose dirt or grit as these can cause fine scratches.

When required, use a solution of clean water and our **Invictus Cleaner**. Do not flood the floor with water. Rinse thoroughly and soak up residual water.

Always wipe up spills as soon as possible, to reduce the risk of slipping and possible staining. .

Do not use chlorinated solvents. Never use wax or varnish coating. Never use maintenance products that contain wax or oil. (furniture polish spray should be avoided as they can cause slippery floors)

Never use a steam mop.



8. WARRANTY INFO AND CONDITIONS

Warranty for first user

If you notice a defect, contact your dealer within two weeks with your original purchase receipt. For more detailed information: www.invictus.eu

9. LEGAL INFORMATION

This document presents the general installation instructions, based on the latest available information. For the best result, and to ensure the validity of the warranty, these instructions should be followed carefully.

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