



LVT MULTILAYER FLOORING

Featuring **ISOCORE** Technology®

INSTALLATION GUIDE



GET TO KNOW ISOCORE FEATURING ISOCORE TECHNOLOGY®

- General information: When installing ISOCORE, always use best practices and follow the applicable standards for the installation of floor coverings, such as BS 8203 in the UK and VOB, Part C, DIN 18365 in Germany and all other relevant European, national and local standards.
- ISOCORE is intended for interior commercial use only and is suitable for abovegrade (suspended) on-grade (in contact with ground) and below grade (basement) applications. However, ISOCORE should not be installed in locations where the substrate beneath the building structure is exposed to the elements.
- ISOCORE is to be installed as a floating floor system and must be free to move as a monolithic unit in response to changes in temperature. It must not be glued, nailed, or fastened to the substrate, walls or fixed to any part of the building structure. Permanent fixtures such as walls, partitions, shelving, cabinets, displays, counters, tracks for transition profiles and similar items should be installed first, then fit ISOCORE around them, leaving a space for expansion and contraction. Fill expansion spaces around potentially wet areas with premium waterproof 100% silicone sealant. Always remove standing water, pet urine and other liquids promptly.
- ISOCORE is a perfect solution for sunrooms, as it it one of the most stable flooring products in the market. However, prolonged exposure to direct sunlight may cause ISOCORE to fade or to expand causing the floor to warp or to separate. Protect ISOCORE from direct sunlight using window treatments or UV tinting on windows. ISOCORE is not recommended for use in solariums.
- ISOCORE is a waterproof floating floor, but it should not be used to seal an existing floor from moisture. ISOCORE cannot inhibit the growth of mold or prevent structural problems associated with, or caused by flooding, excessive moisture, alkalis in the sub floor, or conditions arising from hydrostatic pressure. Regardless of location, always remove standing water, urine and other liquids promptly. *Job site moisture issues must be addressed and corrected prior to installation.*



PRE-INSTALLATION ESSENTIALS

Your job will be smooth, fast and easy when you follow the essentials every time you install ISOCORE.

EVALUATE THE JOB SITE

EXTERIOR

Damage caused by water and high humidity should be addressed prior to installing ISOCORE.

- Examine the driveway, parking area's and landscaping surrounding the building. Be sure that they slope and direct water away from the foundation.
- Inspect gutters, down spouts and drains for blockage. Remove clogs caused by leaves, dirt and debris, allowing runoff to flow freely away from the foundation.
- Check crawl spaces for cross-ventilation air vents. Crawl spaces should be insulated according to the latest building code requirements.

INTERIOR

Jobsite moisture issues must be addressed and corrected prior to installation.

- Examine the installation site for leaky plumbing, including leaks from sprinkler heads, toilets, water heaters, water fountains, radiators or any other water-bearing fixtures or pipes.
- Inspect substrates for levelness. They must be sturdy, sound, and flat within 3mm in a 1.8 metre radius, or 5mm within a 3 metre radius. The substrate should not slope more than than 25mm per 1.8 metres in any direction.
- BV requires testing of concrete substrates for moisture and pH before installing ISOCORE. Test results should not exceed 85% relative humidity (RH). PH tests for alkalinity levels should register between 7 and 9.
- BV requires testing of wood substrates for moisture. Obvious signs of moisture issues include warping, peaking, degradation of the integrity of the substrate, rusted fasteners, and rusted floor registers. Even if obvious signs are not present, the material should be tested using a professional moisture meter and moisture levels should not exceed 14%.

ATTENTION: Mold and mildew grow only in the presence of moisture. Jobsite moisture issues must be addressed and corrected prior to installation.

IDENTIFY YOUR SUBSTRATE

APPROVED SUBSTRATES

ISOCORE is suitable for use over a wide variety of substrates.

CONCRETE

All subfloors should be tested and prepared according to the applicable standards for the installation of floorcoverings, such as BS 8203 in the UK and VOB, Part C, DIN 18365 in Germany and all other relevant European, national and local standards.

ISOCORE is waterproof, but jobsite moisture issues must be corrected before installation begins to prevent serious damage to the subfloor and surrounding structure, and to discourage the growth of mould and mildew. Concrete substrates must be sturdy, sound, and flat within 3mm within a 1.8 metre, or 5mm within a 3 metre radius. The substrate should not slope more than 25mm per 1.8 metres in any direction. Moisture and alkalinity tests should be performed on all concrete substrates regardless of grade level or age of slab. Test results should not exceed 85% relative humidity. PH tests for alkalinity levels should register between 7 and 9. All moisture tests should be substrate is in compliance.

UNDERFLOOR HEATING

Installations where underfloor heating is used, follow current DIN 18365 and EN 1264 Standards. The maximum working temperature on the surface of the substrate is 30°C. Installation over electrical systems is not allowed.

TIMBER, PARTICLEBOARD & CHIPBOARD

Wooden substrates must be sturdy, sound, and flat within 3mm within a 1.8 metre radius, or 5mm within a 3 metre radius. The substrate should not slope more than 25mm in 1.8 metres in any direction. BV recommends performing moisture tests prior to installation to prevent serious damage to the subfloor and surrounding structure, and to discourage the growth of mold and mildew. Moisture readings should never exceed 14% for plywood, particleboard and chipboard substrates. If moisture readings exceed 14%, it is advisable to correct moisture issues at the jobsite before installing ISOCORE.

TILE, TERRAZZO, ASBESTOS TILE, RESILIENT TILE, NON-CUSHION SHEET VINYL, & METAL

Existing floors must be firmly attached to the structural floor. In order to prevent vertical deflection (movement) and potential damage to the integrity of the ISOCORE flooring, all substrates must be sturdy, sound, and flat within 3mm within a 1.8 metre radius, or 5mm within a 3 metre radius. The substrate should not slope more than 25mm per 1.8 metres in any direction. ISOCORE is designed to go directly over ceramic and porcelain tiles, due the rigid core combined with the ixpe foam backing. The combination of these features allow ISOCORE to be installed directly over tiles, where grout lines are less than 6mm deep and 6mm wide.



UNACCEPTABLE SUBSTRATES

Remove the floors noted below and remove old adhesive before installing ISOCORE. Encapsulate adhesive and cutback residue by covering with a suitable smoothing compound to create a barrier.

- Parquet Over Concrete
- Hardwood Over Concrete
- Cushion Back Sheet Vinyl
- Engineered Hardwood Over Concrete
- Carpeting/Carpet Pad
- Floating Floors
- Sleeper Substrates

PREPARE THE JOB SITE

Careful preparation is the key to outstanding results. All trades must finish before installing ISOCORE.

- Building envelope should be fully enclosed with windows and exterior doors permanently installed.
- Turn on Central Heating Ventilation and/or Air-Conditioning at Least One Week Prior to Installation- Room temperature should be maintained between 18°C and 29°C at least 48 hours prior to installation and continuously between 12°C-35°C for the life of the floor.
- ISOCORE flooring is more dimensionally stable than typical floating wood or vinyl based flooring products, however 48 hour acclimation is required. ISOCORE flooring subjected to extreme hot or cold conditions can cause the material to become too flexible or rigid, making the material difficult to install and potentially causing damage to the locking system. Optimum material and building temperature range for installation is 18°C-29°C.
- Allow all other trades to Finish
- Perform Recommended Moisture and pH Tests- See the "Identify Your Substrate" section of this manual for further information about suggested tests.
- Level Uneven Substrates- All subfloors must meet all minimum standard building codes. Fill large cracks and voids with cementitious leveling and patching compound. In order to prevent vertical deflection (movement) and potential damage to the integrity of the ISOCORE flooring, all substrates must be sturdy, sound, and flat within 3mm within a 1.8 metre radius, or 5mm within a 3 metre radius. The substrate should not slope more than 25mm per 1.8 metres in any direction.

- **Remove Skirting Mouldings-** Remove wall skirtings prior to installation. Leave appropriate expansion space between the edge of the flooring and walls or vertical surfaces.
- Fill Grout Lines- ISOCORE can be installed directly over existing tile or stone floors. Grout lines that are more than 6mm deep or 6mm wide should be filled in with cementitious leveling and patching compound.
- Remove Unapproved Substrates
- **Remove or Encapsulate Old Adhesive-** Old adhesives must be scraped up and left so that no ridges or puddles are evident and what remains is a thin, smooth film. Then encapsulate residue to prevent the new flooring from attaching itself to the substrate.
- Undercut Wood Door Casings- Wood door casings should be undercut so that ISOCORE will fit neatly beneath them, concealing the expansion space.
- Cut Around Metal Door Casings- Do not cut metal door casings. Cut ISOCORE around them, leaving the appropriate expansion space. After installation, fill the space with a coordinating premium waterproof 100% silicone sealant.
- Clean Up the Job Site- Remove all debris, sweep and vacuum the subfloor. Smooth, non-porous floors should be damp-mopped after vacuuming and allowed to dry thoroughly before installing ISOCORE. All dust must be removed prior to installation.

CHECK BATCH NUMBERS AND MANUFACTURE DATE

Locate the batch number on the short end of each carton and verify that all of the material for your job is from the same batch. Minor shade variations within the same batch number contribute to the natural look of ISOCORE. To avoid noticeable shade variations, do not install material from different batch numbers across large expanses.

To determine manufacture date, locate the batch number on the short end of the carton. It is the eight-digit number separated by decimal points beginning with the two-digit day, then the two-digit month, and finally the four-digit year.

Batch Number/Manufacture Date

29.10.2013 DAY.MONTH.YEAR



KEY INSTALLATION CONSIDERATIONS

Subfloor Flatness Tolerances	5mm in 3 metres or 3mm in 1.8 metres Slope no more than 25mm in 1.8 metres
Damp Proof Membrane - 0.20 mm	Not Required
ls underlayment (underlay) required	No – ISOCORE includes an integral pre-attached underlayment
Acclimation Requirements	48 hours*
Transition Requirements (T-Mould) for Large Spaces	Required in rooms greater than 20 metres in either direction
Transition Requirements (T-Mould) Doorways/Thresholds	Required
Installation over existing ceramic tile floor	Grout lines that are more than 6mm deep or 6mm wide should be filled in with cementitious leveling and patching compound. Follow subfloor flatness requirements.
Glue Down Installation	Not Required/Not Recommended
Internal Subfloor Relative Humidity (RH) Recommendations	Maximum 85% RH when tested with a hygrometer, in accordance with BS 8203: 2001. Appendix A
Underfloor Heating	Approved - Substrate surface temp. not to exceed 30°C Installation over electrical systems is not allowed
3-Season/Non-Climate Controlled Environments	Not Recommended
Expansion Requirements	10mm around perimeter walls, pipes, & heavy fixed objects such as cabinetry**
Optimal Interior Environmental Conditions	During Installation: 18°C During life of flooring: 12°C-35°C)/40%-60% RH
Definition of "Waterproof"	Structural integrity of flooring will not degrade due to contact with moisture/water***

*ISOCORE flooring is more dimensionally stable than typical floating wood or vinyl based flooring products, however acclimation is required. ISOCORE flooring subjected to extreme hot or cold conditions can cause the material to become too flexible or rigid, making the material difficult to install and potentially causing damage to the locking system. Optimum material and building temperature range for installation is 18°C - 29°C.

**If installing ISOCORE in an environment that has a length or width greater than 20 metres, a T-Moulding should be utilized to separate the floor into two (2) separate sections.

***While ISOCORE is waterproof, it is not intended for use as a moisture mitigation system.

ATTENTION: Only installation techniques described in this installation guide are warranted. Does not warrant ISOCORE installations involving custom cutting, such as 45-degree mitered corners and serpentine edges. Please refer to the ISOCORE warranty for complete warranty details and exclusions.



INSTALL FIRST PLANK

Position the first plank against

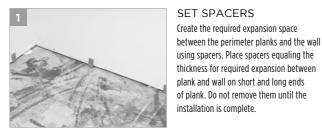
a spacer a few milimetres from

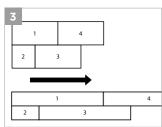
the starting wall.

INSTALLATION FOR ISOCORE WITH **DROPLOCK100** PROFILE



Installation will move from left to right beginning in the left corner with tongue side of long edge facing the wall. First measure the distance between the starting wall and ending wall. It may be necessary to cut the first row to balance the layout and to prevent having a small cut at the end wall.









INSTALL THE LAST PIECES OF ROWS 1 AND 2 Cut to fit, maintaining the expansion gap. Install as before. Move the entire assembly against the spacers on the starting wall.

ESTABLISH PROPER

STAGGERING

SECOND PLANK

Insert the long side then slide the plank

until the short tongue touches the short

second row. Press the joint into place with your fingers and tap the short joint with

a lightweight rubber hammer. Square the

joint by tapping the long edge of the plank

groove edge on the first plank of the

using a tapping block, if necessary.

SECOND ROW



INSTALL THE LAST ROW Cut the final row of planks to fit along the wall. Use a pull bar to lock the long edges together. Do not use the pull bar on the short edges.





Cut the first plank in the second row to one-third its length before installing it. Insert the long tongue edge of the plank into the long groove edge of the first plank. Make sure there are no gaps. Tap along the long groove edge using a tapping block.

SECOND PLANK FIRST ROW

Select a full plank and position the long groove edge into the tongue of the second plank in the second row. Press, tap and square as before. Repeat the same installation pattern until you reach the opposite wall and cannot install another full plank.

INSTALL REMAINING ROWS

Install the remaining material, one row after the other. Always press, tap and square as you go, and maintain the required stagger throughout the install.

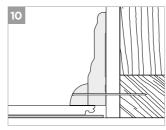
FINISH THE JOB

Remove spacers. Cover expansion space with with skirting, quarter round or other trim, being sure not to trap or pin down the floor.

Maintain a minimum 150mm end-joint stagger from row-to-row throughout the entire installation. Tile products should be staggered in a bricklaid pattern with stagger equal to half of a tile. Installation alternates back and forth between rows one and two, for the first two rows only.









GENERAL CARE & MAINTENANCE

ROUTINE CARE & MAINTENANCE

- Sweep, dust mop or vacuum daily. Do not use vacuums with any type of beater bar assembly.
- Lightly damp mop with a neutral PH cleaner. Remove excess soil by carefully scrubbing with a soft nylon brush, micro fibre mop or sponge and a neutral PH cleaner.
- Remove scuffs using a neutral PH cleaner and a soft nylon brush or sponge.
- Heavily soiled floors may require an occasional deep cleaning using a neutral PH cleaner, spray bottle and a low-speed buffer not exceeding 300 RPM. Fit the buffer with a red or white scrubbing pad, spray the cleaner solution onto a manageable area of the floor and scrub. Remove the dirty residue by damp mopping with clear water. Caution: Do not flood the floor.
- Remove standing water, urine and other liquids promptly. Follow with a neutral PH cleaner.

PREVENTIVE CARE

- Use walk-off mats at all outside entrances.
- Use only flat felt or soft plastic glides at least 50mm in diameter under furniture legs or free standing displays and fixtures to prevent indentations and scratches.
- Use broad surface non-staining casters at least 50mm in diameter on rolling fixtures or furniture.
- Do not use vinegar, polishes, waxes, oil soaps, abrasive cleaners, harsh detergents or solvents.
- Use non-staining mats.
- Do not expose to direct sunlight for prolonged periods.
- Do not use steam cleaners.
- Do not flood floor or subject to standing liquids including urine.