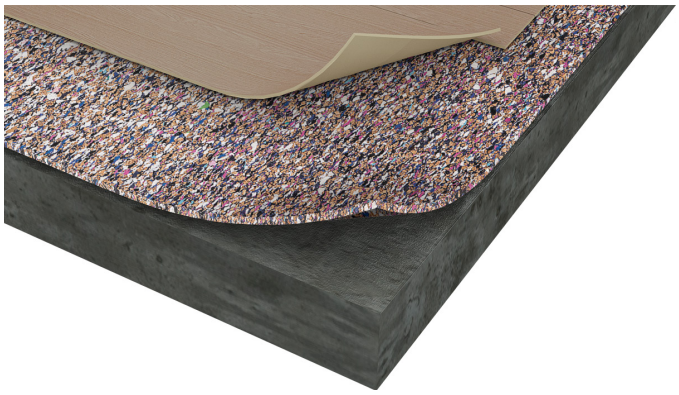
AcoustiCORK® by Amorim

TECHNICAL DATA SHEET

T23 STRENGTH

Agglomerated cork and HD EVA underlayment for resilient floors, offering excellent acoustic insulation and high load resistance



KEY FEATURES

- Highly resistant to residual indentation.
- Manufactured from recycled and natural materials.
- Resistant to very heavy loads.
- Helps protect LVT flooring by preventing damage to click-system joints.
- Tested according to MMFA/EPLF Group 2 high-performance requirements.

PHYSICAL AND MECHANICAL PROPERTIES

Specific Weight (kg/m³ | lb/ft³) ①	550–650 | 33–40
Tensile Strength (kPa) ①	> 500
Compression at 0.7MPa (%) ①	10–20
Recovery after 0.7MPa (%) ①	70

① ISO 7322

TECHNICAL PROPERTIES

Flooring		LVT
Thickness	mm	1.6
Thermal Resistance (TR) ①	$m^2 \cdot K/W$ | $hr \cdot ft^2 \cdot °F/BTU$	0.015 | 0.0026

Floor Durability

Punctual Conformability (PC)	mm | in	> 1 | > 0,039
Compressive Strength (CS)	kPa | Psi	> 400 | > 58
Compressive Creep (CC)	kPa | Psi	> 140 | > 20

① Suitable for underfloor heating and cooling

THERMAL INSULATION

Thermal Conductivity (W/mK) ①	TBD
Thermal Resistance ($m^2 \cdot K/W$ | $hr \cdot ft^2 \cdot °F/BTU$)	0.015 | 0.0026

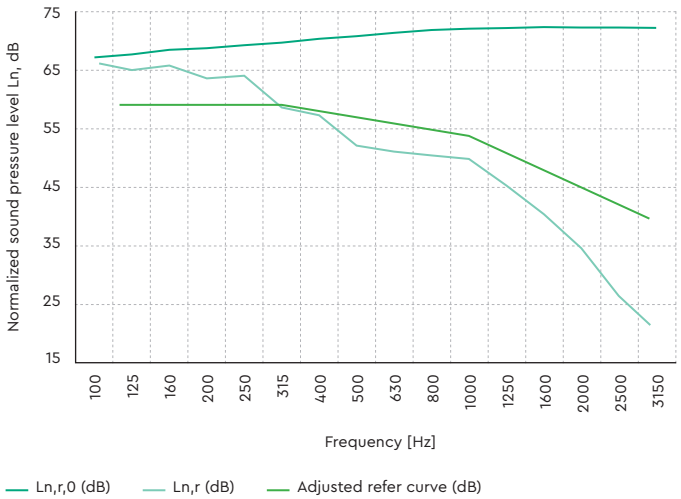
① EN 8301

ACOUSTICAL RESULTS

Flooring	Resilient Floor (LVT) – Hydrocork (6mm)
Thickness (mm)	1.6
ΔLw (dB) ①	21

① ISO 10140–3 and ISO 717–2

Test procedure according to ISO 10140-1:2010; ISO 10140-3:2010; ISO 10140-4:2010 and ISO 717-2:2013 standards.

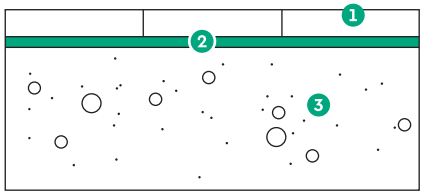


$L_{n,r,0}$ Normalized impact sound pressure level of the Lab reference floor.

$L_{n,r}$ Normalized impact sound pressure level of the reference floor with the floor covering under test.

ΔL_w Impact sound pressure level reduction index of the covering under test, on a normalized floor.

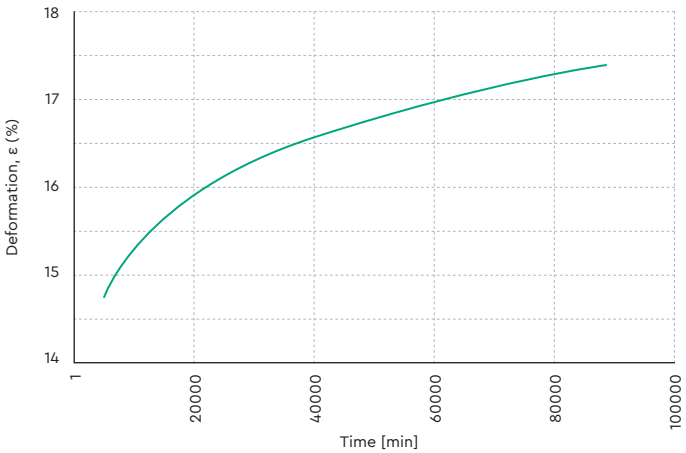
TEST APPARATUS (ΔL_w)



1. Floor covering composed by loose-lay or click system LVT
2. Agglomerated cork and recycled EVA resilient layer – Acousticork T23
3. Reinforced concrete slab of thickness 140mm

PHYSICAL AND MECHANICAL PROPERTIES

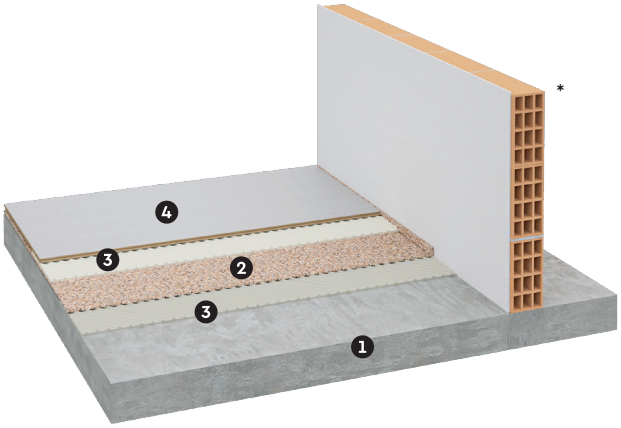
Creep deflection @ 90 kPa (% of start height)



Note: Following ISO8013–1998 measured in Cantilever Test System

INSTALLATION

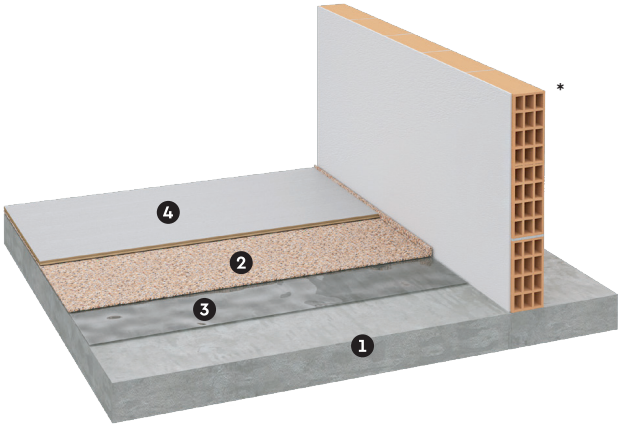
GLUED FLOORS



1. Reinforced concrete slab
2. Underlayment – Acousticork T23
3. Adhesive
4. Floor covering composed of a glued LVT

*Product images and illustrations are for illustrative purposes only.

NON GLUED FLOORS



1. Reinforced concrete slab
2. Underlayment – Acousticork T23
3. Vapour barrier
4. Floor covering composed of a non glued LVT

*Product images and illustrations are for illustrative purposes only.

GENERAL INSTALLATION INSTRUCTIONS (WITH AND WITHOUT GLUE)

The following installation instructions are recommended by Amorim Cork Solutions, and are not intended to be a definitive project specification. They should be interpreted and applied taking into account the recommendations of the manufacturers of the flooring to be installed, as well as the manufacturers of the glue, should this be necessary.

Preparation of the subfloor

The subfloor must be level, dry, clean and in good structural conditions. A floor is considered level if the deviation height is less than 2mm over a distance of 2.5 linear meters. Deviations above this value must be leveled out before underlayment installation.

The humidity content of the concrete substrate must not exceed 2.5 % (MC) by weight. Any moisture problems need to be solved before installation. New concrete slabs need to cure for at least 120 days before installation.

The environmental conditions during the installation should be: temperature >10ºC and humidity <75%

Installation of the moisture barrier

For floating floors you must first install a moisture barrier across the entire area of the room to minimize the risk of possible damage caused by rising damp, and then install the underlayment. The barrier must be installed directly onto the surface of the subfloor, in the opposite direction you plan to install the final floor to reduce seams. This moisture barrier should have a minimum sd-value of 75 m. It should be installed following the outline of the enclosing wall, to a height of at least 30 mm and with a minimum overlap of 100mm using a suitable tape to seal seams. After finishing, the barrier must cover the entire subfloor area without any gaps. Never mechanically secure the barrier with screws, nails or staples as this may compromise its effectiveness.

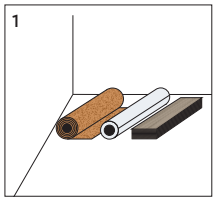
Installation of the underlayment (for non-glued solutions)

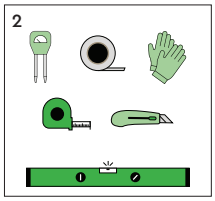
Place one roll of the underlayment parallel to the wall and in the opposite direction you plan to install the final floor to reduce seams. Cut the underlayment material roll to the desired length and install it directly, covering the entire surface of the room. The underlayment must cover the entire area without any gaps, and be securely joined using duct tape. Never mechanically secure the underlayment with screws, nails or staples as this may compromise its effectiveness. Install the flooring perpendicularly to the underlayment. Always follow the flooring manufacturer's recommended installation instructions.

Glued down installation

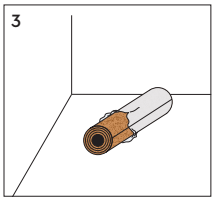
Before installing the underlayment, apply the glue and make sure that the surface has been treated to prevent moisture. The installation of a moisture barrier is not necessary. After applying the glue, cut the underlayment material roll to the desired length and install it directly, covering the entire surface. The underlayment must cover the entire area without any gaps, and be securely joined using duct tape. Never mechanically secure the underlayment with screws, nails or staples as this may compromise its effectiveness. Apply glue on the underlayment and install the flooring perpendicularly to the underlayment. Always follow the flooring manufacturer's recommended installation instructions.

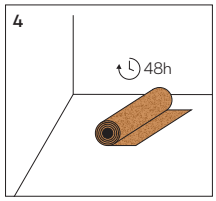
APPLICATION PROCESS · FLOATING FLOOR · NON-VAPOR BARRIER UNDERLAYMENT



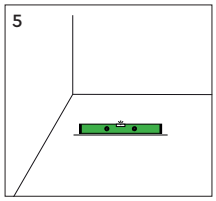


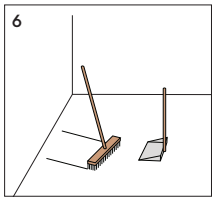
These are all the materials needed to install the underlayment.



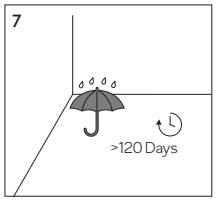


For the installation process, open the packaging 48 hours in advance and leave for acclimatization

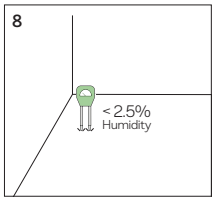




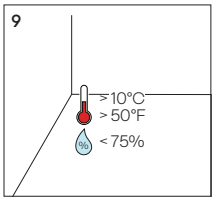
Subfloor preparation: Make sure that the subfloor is leveled, dry, clean and in good structural conditions.



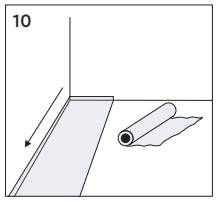
New concrete slabs must be left to cure for 120 days before installation.



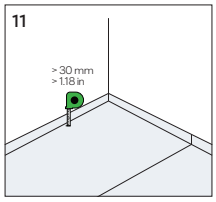
The humidity content of the substrate is critical: it must not exceed 2.5 % (MC).



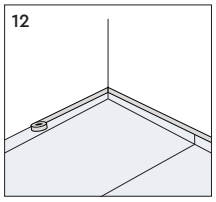
Air temperature should be above 10°C and air humidity below 75%.



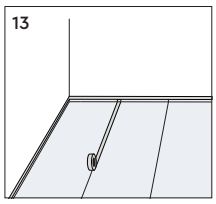
You must first install a moisture barrier across the entire area of the room. It should be installed following the outline of the enclosing wall.



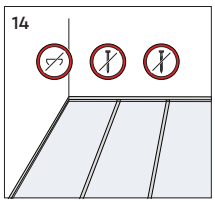
Use a height of at least 30 mm and with a minimum overlap of 100mm using a sealing tape to seal the seams.



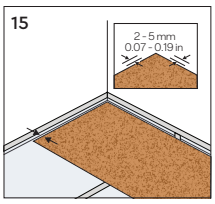
The barrier must be installed directly onto the surface of the subfloor. Use a sealing tape to seal the rows securely together.



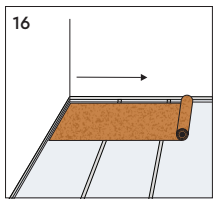
The installation should be in the opposite direction you plan to install the underlayment to reduce seams, in the same direction of the final floor.



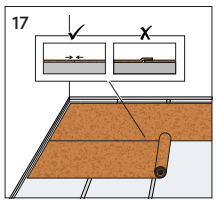
Never mechanically secure the barrier with screws, nails or staples, since this may undermine its effectiveness.



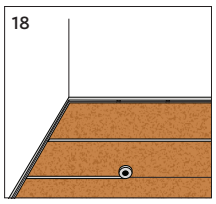
Leave a little space between the wall and the underlayment.



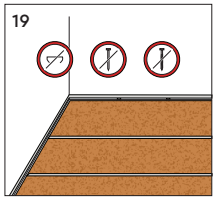
The underlayment should be installed in a perpendicular direction to the final floor, which should always be installed in the direction of natural light incidence in the room.



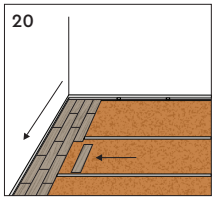
The underlayment must cover the entire area without any gaps nor overlaps.



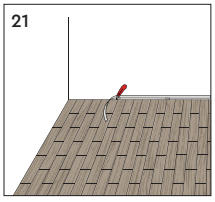
To securely joined using sealing tape.



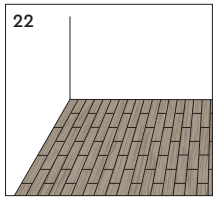
Never mechanically secure the underlayment with screws, nails or staples, since this may undermine its effectiveness.



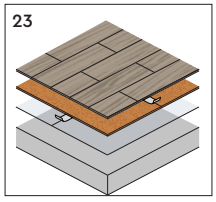
Install the flooring in a perpendicular direction to the underlayment.



Cut off excess moisture barrier.

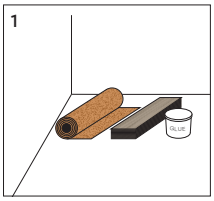


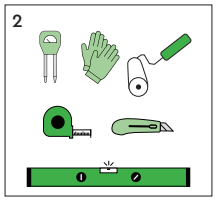
Always follow the flooring manufacturer's recommended installation instructions.



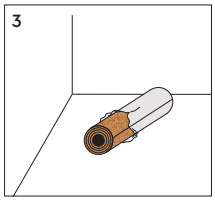
Total System.

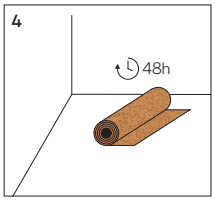
APPLICATION PROCESS · GLUED FLOOR



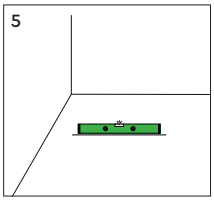


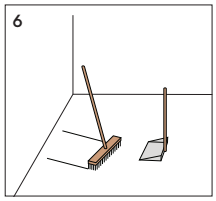
These are all the materials needed to install the underlayment.



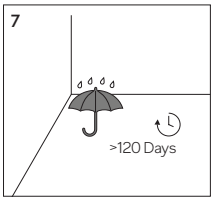


For the installation process, open the packaging 48 hours in advance and leave for acclimatization

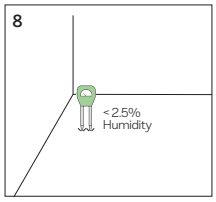




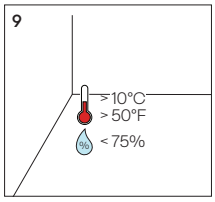
Subfloor preparation: Make sure that the subfloor is leveled, dry, clean and in good structural conditions.



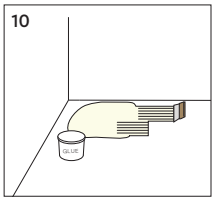
New concrete slabs must be left to cure for 120 days before installation.



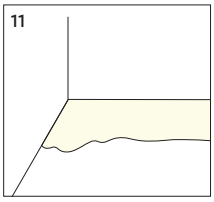
The humidity content of the substrate is critical: it must not exceed 2.5 % (MC).



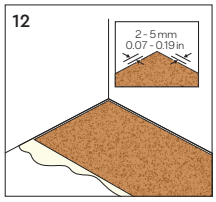
Air temperature should be above 10°C and air humidity below 75%.



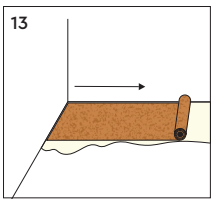
Optional step: apply the glue using a trowel. The installation of a moisture barrier is not necessary.



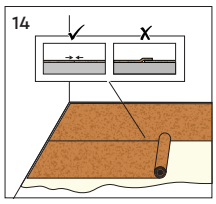
Optional step: we recommend the use of an adequate glue for the flooring to be installed.



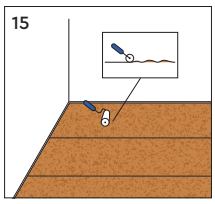
Install the underlayment directly on the adhesive, leave a space between the wall and the underlayment.



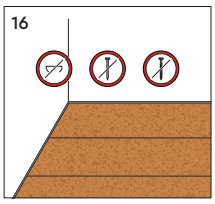
The underlayment should be installed in a perpendicular direction that you plan to install the final floor.



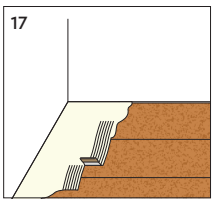
The underlay must cover the entire area without any gaps nor overlaps.



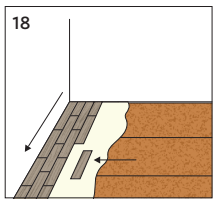
Use the paint roller to make sure the underlayment doesn't have any waves.



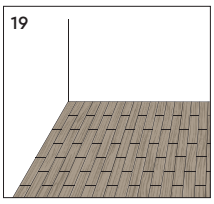
Never mechanically secure the underlayment with screws, nails or staples, since this may undermine its effectiveness.



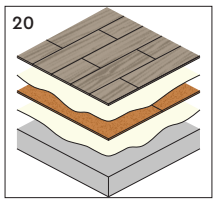
Apply the same glue on the underlayment.



Install the flooring in a perpendicular direction to the underlayment, and let the whole floor dry completely before you start to use it.



Always follow the flooring manufacturer's recommended installation instructions.



Total System.

TECHNICAL DATA SHEET T23 STRENGTH

The data provided in this Technical Data Sheet represents typical values. This information is not intended to be used as a purchasing specification and does not imply suitability for use in a specific application. Failure to select the proper product may result in either equipments damage or personal injury. Please contact Amorim Cork Solutions regarding specific application recommendations. Amorim Cork Solutions expressly disclaims all warranties, including any implied warranties or merchantability or of fitness for a particular purpose. Amorim Cork Solutions is not liable for any indirect special, incidental, consequential, or punitive damages as a result of using the information listed in this TDS. Any of its material specification sheets, its products or any future use or re-use of them by any person or entity. For contractual purposes, please request our Product Specifications Sheet (PDA).