[1003] CONNOR SPORTS® REZILL SLEEPER FLOORING

1. INSPECTION AND PREPARATION OF THE SUBFLOOR

The product may be laid on the following subfloors:

- New or old subfloors such as:
  - Separate cement screeds or concrete slabs
  - Concrete paving
  - Intermediate and upper concrete slabs and floors
  - Cement or calcium sulphate-based liquid screeds
  - Asphalt concrete
  - Asphalt screed
- The following are also concerned:
  - Glued old sports floor coverings (PVC, rubber, resin, etc.)
  - Painted concrete
  - Old glued parquet flooring (in this case, do not use plastic film)

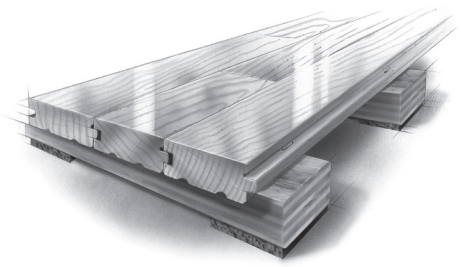
Local standards have to be applied and the following requirements must be satisfied:

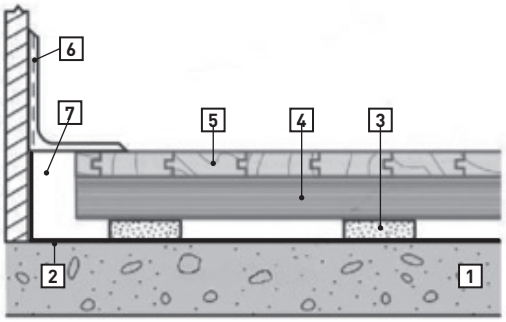
- Surface evenness less than 5 mm when measured with a 2 m straightedge and 1 mm when measured with a 20 cm straightedge.
- Subfloor humidity less than 3 % at a depth of 2 cm using the carbide bomb meter test.
- The concrete must offer an average compressive strength of > 24.13 MPa after 28 days.

In the event of a nonconforming subfloor, it must be prepared in accordance with the product manufacturer's instructions.

2. PRODUCTS

NOTE : before you start work, check with our technical services whether this data sheet has been amended by a more recent version.
Examine the materials prior to installation to ensure that there are no visual defects. If the flooring has already been installed, the cost of any remedial work will not be covered.





DESCRIPTION

1. Concrete slab
2. Polyethylene (0.15 mm)
3. Resilient pads
50 x 50 x 20 mm
4. Preassembled subfloor construction
5. Flooring
6. Vented cove base
76 mm x 102 mm
7. Expansion space (38 mm)

3. SUBFLOOR CONSTRUCTION: FLOORING AND TOOLS

MATERIALS SUPPLIED WITH THE ORDER BY GERFLOR	MATERIALS AVAILABLE ON ORDER FROM GERFLOR	MATERIALS AND TOOLS SUPPLIED BY THE INSTALLER
FOR THE SUBFLOOR CONSTRUCTION		
		Staples 38 mm / 5,000 units / 1 box (900 m²)
Plywood sleepers (2.44 m x 7.5 cm / 2.4 cm)		Circular saw / jigsaw
Polyethylene 0.15 mm / 1 box (185.7 m²)	Vented cove base (1.22 linear metres) / 16 units	Electric screwdriver
Factory-mounted pads (50 x 50 x 12 mm) + pads supplied for repositioning during trimming		Wood adhesive sealant
		Hammer
		Staple gun
FOR THE FLOORING		
Flooring bundles = 1.6 m² / length from 0.23 m to 2.40 m Width: 57 mm	For Rezill Sleeper: Staples 50 mm / 5,000 units / 1 box (60 m²)	Staple gun, such as Bostitch MIIIFS, for fixing Connor flooring
		Shims
	Spline	Hammer
		Adhesive sealant

IMPORTANT : The information in this document is valid from 01/12/2018 and is subject to change without prior notice. We are continuously making technical improvements to our products; before starting any work, our customers should check with us that this document is still in force.

[1003] CONNOR SPORTS® REZILL SLEEPER FLOORING

4. CONDITIONS AND PREPARATION OF THE GYMNASIUM

4.1 - STORAGE

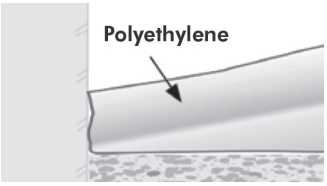
The materials required to install the REZILL SLEEPER subfloor construction must be stored on site, in a dry area of the gymnasium that is protected from variations in temperature.

4.2 - ACCLIMATISATION PERIOD

IMPORTANT : three days prior to installation, the ambient temperature in the room must be between 15 and 30°C. Relative humidity must be between 30 and 60 %. Once these conditions are met, all protective coverings and packaging can be removed to allow the materials to acclimatise. After unpacking, the materials must be left to rest for three days before installing.

While installing the subfloor construction, maintain the same conditions (i.e. ambient temperature from 15 to 30°C and relative humidity between 30 and 60 %). If there is any moisture in the room (such as a new build), you are advised to ventilate the room for four to six weeks before installing the subfloor construction. Ensure that the room is ventilated throughout installation.

5. LAYING THE POLYETHYLENE VAPOUR BARRIER



A polyethylene vapour barrier with a thickness of at least 150 microns must be laid across the entire subfloor.

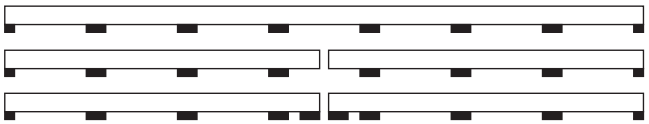
Coving: the vapour barrier must be turned up at the edges of the room by at least 15 cm to reach the finished floor level.

Use of two vapour barriers: the barriers must overlap by 40 cm. Overlaps are bonded using single-sided moisture-resistant adhesive tape.

6. INSTALLING THE SUBFLOOR CONSTRUCTION

❶ Start installing the sleepers in one of the corners of the gymnasium.
Install the sleepers widthways in the main gymnasium.

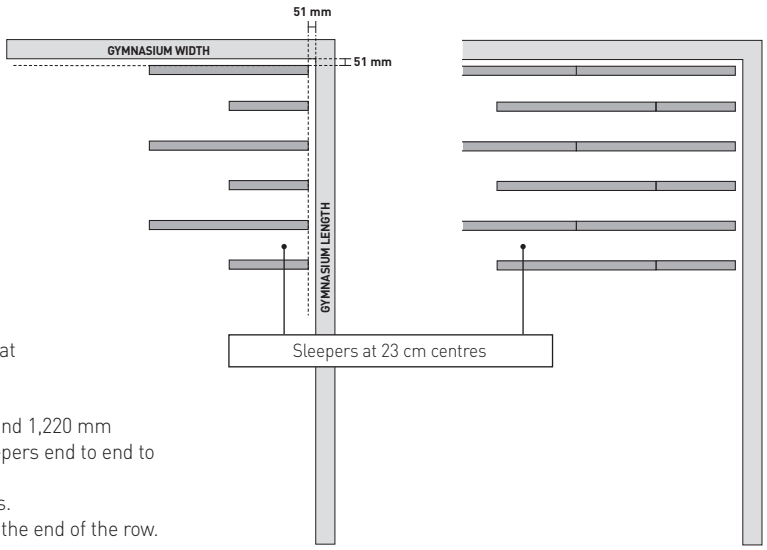
❷ Cut 2,440 mm sleepers in half (2 x 1,220 mm).
1,220 mm sleepers will be used to start each alternating row.



❸ Start the first row of sleepers with a 2,440 mm sleeper. Continue and end the row with 2,440 mm sleepers.
If necessary, cut the last sleeper to ensure a 51 mm gap at the end of the row.

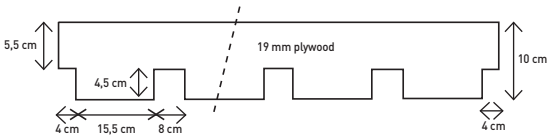
IMPORTANT : A 51 mm gap must be maintained along the walls and around any obstacles. Maintain a space of 6 mm between the ends of the sleepers. Temporary blocks may be helpful in maintaining the gap.

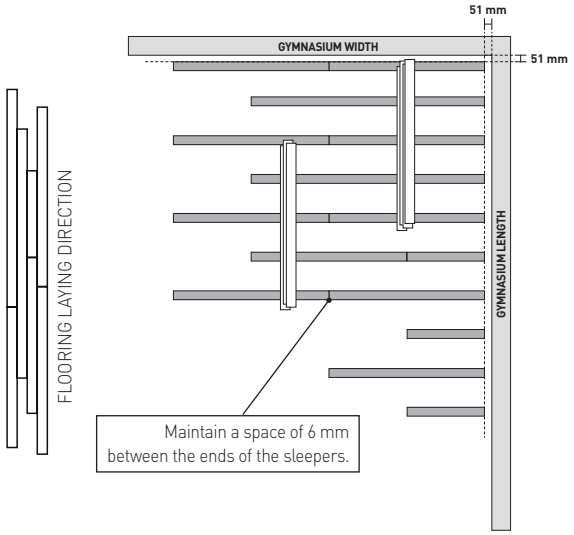
Make sure that they are removed after flooring is complete.



❹ Start the second row of sleepers with a 1,220 mm sleeper at 23 cm centres.

❺ Continue alternating the start of each row with 2,440 mm and 1,220 mm sleepers at 23 cm centres. Continue butting 2,440 mm sleepers end to end to complete each row.
Maintain a space of 6 mm between the ends of the sleepers.
If necessary, cut the last sleeper to ensure a 51 mm gap at the end of the row.

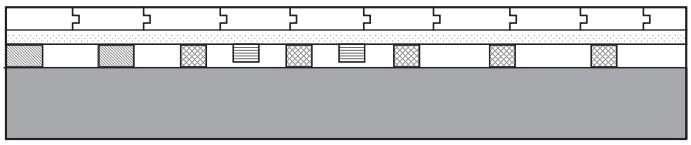


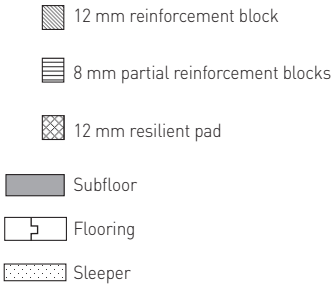


TIP : Set bundles of flooring and templates on the sleepers immediately after the sleepers are set into position. This will keep the sleepers aligned and spaced when fitting the flooring.

7. REINFORCEMENT BLOCKS

12 mm reinforcement blocks must be installed instead of resilient pads in areas subject to permanent or frequent high static loads (retractable seating systems in the stacked position, in front of access doors, storage areas, etc.).
8 mm partial reinforcement blocks must be added between resilient pads in areas subject to occasional high static loads (retractable seating systems in the open position, non-permanent portable equipment, etc.).





8. INSTALLING THE FLOORING

8.1 - DEFINE THE EXPANSION GAPS

1. After maple strips acclimatization period (§4.2), **realize moisture measurements** in the maple strips with a moisture indicator. Realize measurements using different maple strips bundles and in different localization in the bundles.
The average value is your «maple moisture content during installation» (IMC).

2. According to your **local area knowledge about maple moisture** value in time:
- **a.** If you know the highest maple value you can reach, consider it as «maple moisture level during its life» (LMC)
- **b.** If you know the facility will have a controlled environment including relative humidity between 35% and 50%, consider 9% as your «maple moisture level during its life» (LMC)
- **c.** If you don't know the highest maple value you can reach, consider 13% as your «maple moisture level during its life» (LMC).

3. Calculate the difference between your value of «maple moisture level during its life» (LMC) and your value of «maple moisture content during installation» (IMC). We will call this result the "maple moisture content to cover" (MCC) -> **(MCC) = (LMC) – (IMC)**

4. Define the expansion gaps.
According your "maple moisture content to cover" (MCC) value, you can define the expansion gaps to manage on the playground during the installation.

	EXPANSION GAP BETWEEN EACH STRIP	EXPANSION GAP EVERY 4 STRIPS	EXPANSION GAP EVERY 6 STRIPS	EXPANSION GAP EVERY 8 STRIPS
0% < MCC < 1%	0,07 mm	0,28 mm	0,42 mm	0,56 mm
1% < MCC < 2%	0,15 mm	0,60 mm	0,90 mm	1,20 mm
2% < MCC < 3%	0,20 mm	0,80 mm	1,20 mm	1,60 mm
3% < MCC	0,25 mm	1,00 mm	1,50 mm	2,00 mm

Values to consider for maple strip of 57 mm width.

For example, if MCC = 1,5%, you need to insure a gap of 0,60 mm every 4 strips or a gap of 0,90 mm every 6 strips using shims.

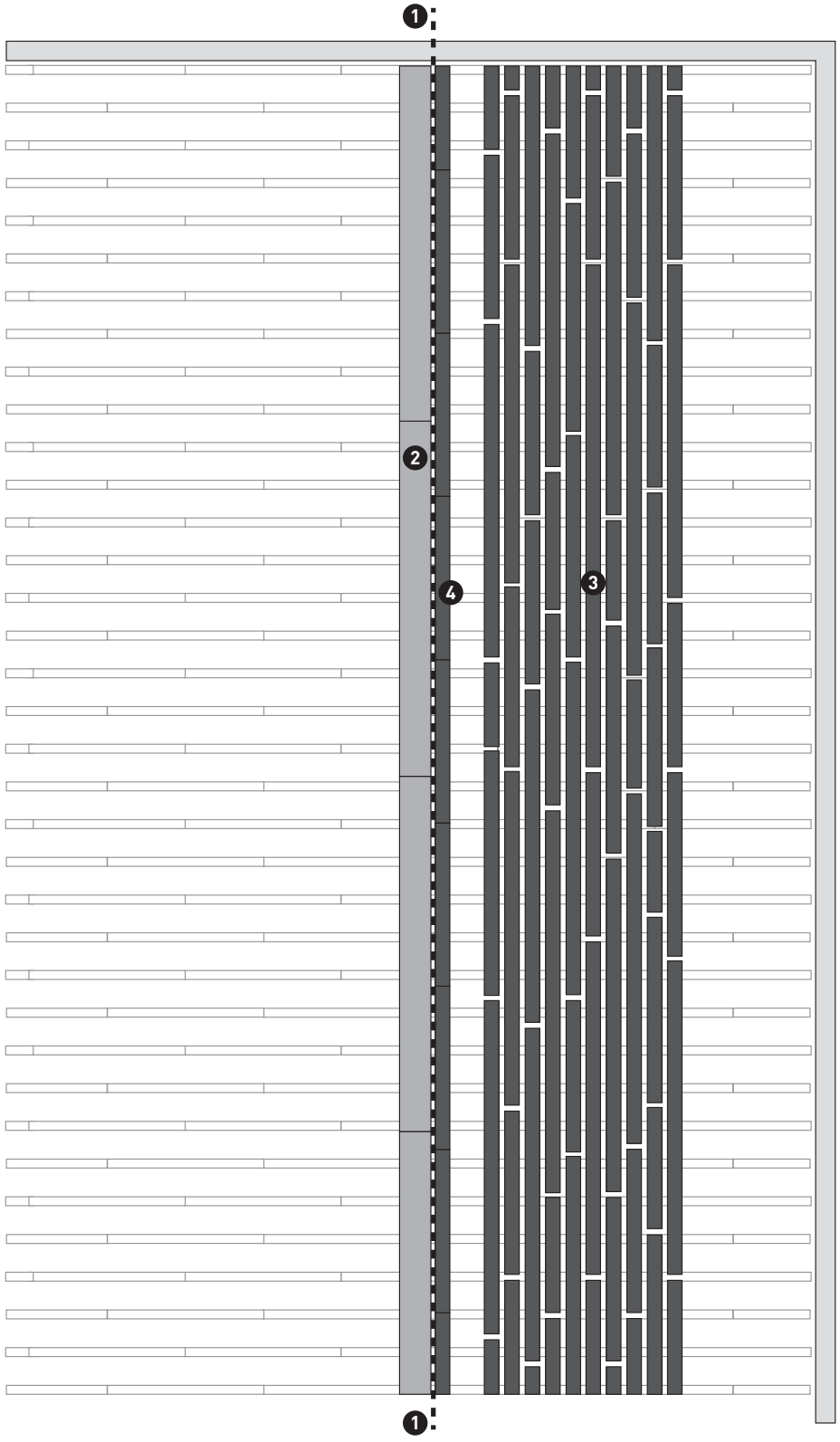
For aspect reasons:
- We recommend to realize expansion gaps under 1,50 mm,
- We recommend to provide smaller expansion gaps more frequently rather than wider expansion gaps in lower quantity.

[1003] CONNOR SPORTS® REZILL SLEEPER FLOORING

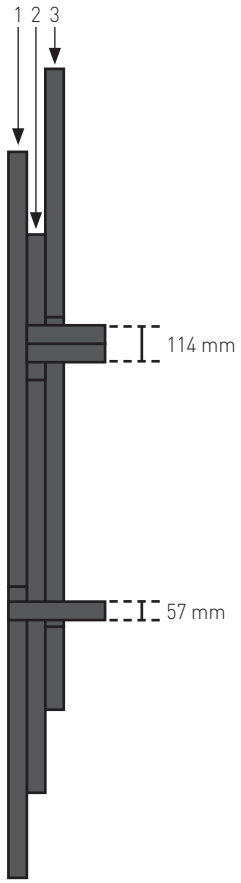
8.2 - INSTALLING THE FLOORING ON SLEEPERS

8.2.1 - Installtion along the longitudinal axis

Install the flooring strips by starting in the middle of the gymnasium.



1. Mark out the longitudinal axis along the subfloor construction.
2. Provisionally fix plywood sheets along the longitudinal axis.
3. Present and sort the strips so that they are ready to be stapled according to the following rule:



- The offset in joints between two consecutive rows must be greater than 114 mm (width of two strips).
- The offset in joints between three consecutive rows must be greater than 57 mm (width of one strip).

4. Staple a row of strips along the axis using the plywood sheets as a guide.

Add shims according to value you define using §8.1

Don't remove a line of shims before the realisation of a new line of shims

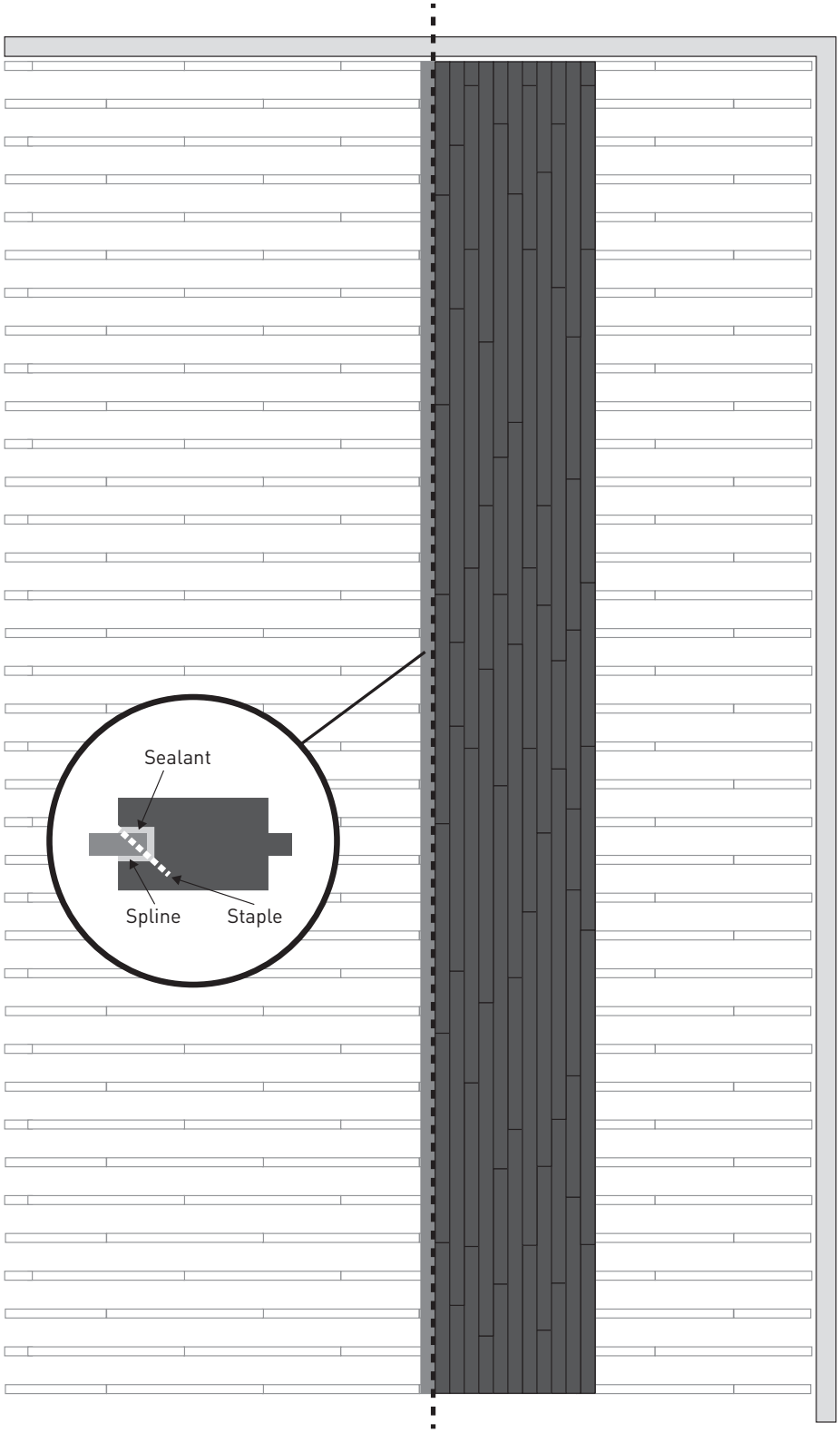
TIPS

To have shims easy removal:

- Be sure to respect the pressure recommendation of your staple gun.

- Remove your expansion gaps blocks at least at the end of the day.

8.2.2 - Installing the second half of the gymnasium



Fixing the spline

Applying the spline in the groove of the strips along the longitudinal axis:

- Remove the plywood sheets.
- Apply adhesive sealant to the bottom of the groove.
- Gently tap the spline into place using a hammer.
- Staple the spline to the flooring.

[1003] CONNOR SPORTS® REZILL SLEEPER FLOORING

8.3 - FIXING THE STRIPS

Connor flooring strip joints do not always fall on a sleeper (1).

8.3.1- Installation

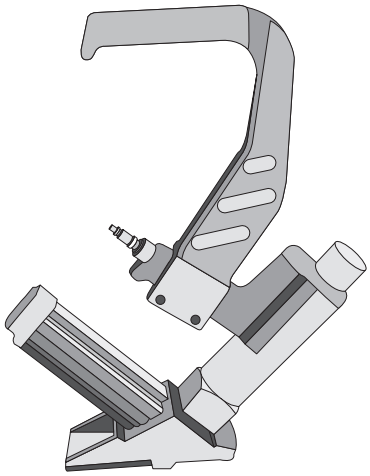
Strips must be stapled with a staple gun, such as Bostitch MIIIFS (www.bostitch.fr).

Recommendations for Rezill Sleeper:
Staple the flooring strips to each sleeper.

Do not staple less than 3 cm from the end of a strip.

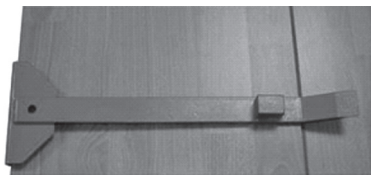
TIPS
To ensure the proper functioning of the staple gun:
- Be careful to respect the pressure recommendation

– use and add lubricant preconised by the staple gun provider every day of working.



8.3.2 - Finishes

8.3.2.1. Installing edging strips
The last rows of strips that cannot be stapled must be glued in the tongues and grooves.
Use a pull bar to fit the last row, which will have been previously cut(using a marking gauge).



8.3.2.2. Peripheral expansion
- If installing on sleepers, leave a 51 mm expansion void at the perimeter.
- If installing a squash court, refer to the following extract of page 6 of squash federation specifications:

JUNCTIONS AND JOJNTS				
CLASSIFICATION	REGIONAL	NATIONAL	INTERNATIONAL	OBSERVATIONS
Wall to floor junctions	There shall be no protrusion of any kind at the junction of the wall with the floor. A 6 mm expansion joint for fixed walls and a 12 mm expansion joint for movable walls are allowed.			-
Joints in playing surfaces	Joints shall not deflect the rebound of the ball in any way. Joints shall not be wider than 2 mm. Their properties must be similar throughout the court.			-

9. SANDING AND SEALING CONNOR FLOORING

9.1- SANDING A CONNOR SPORTS® GYMNASIUM FLOOR

- Use a floor sander, an edger for the edges and a scraper for the corners.
- The floor sander is used in the direction of the grain.
- Progress evenly to sand the entire surface in an identical manner.
- Step 1: sand with coarse grit (40) to strip and flatten the floor.
- Step 2: sand with medium grit (60) to produce an even surface.
- Step 3: sand with fine grit (80) to complete the finish.
- Sand the edges with the edger and scraper.
- Carefully remove all dust with a powerful vacuum cleaner.

[1003] CONNOR SPORTS® REZILL SLEEPER FLOORING

9.2- INTENDED USE AND PRESENTATION OF THE SPORT® SEALER

- SPORT® BLANCHON is a two-part polyurethane-based aqueous sealer.
- SPORT® is odourless. Comp. B is a true water-soluble polyurethane hardener.
- SPORT® is specifically designed for gymnasium floors:
  - Its even appearance ensures a perfect presentation and shows the playing surface to its best advantage.
  - Its exceptional resistance to wear delivers effective, long-lasting protection for sports flooring.
- SPORT® has received the German GEV-EMICODE® EC1R hallmark, which offers the most environmentally-friendly approach to interior works.
- Available with a matte and gloss finish.

TOOLS:

- Belt/floor sander
- Edger
- Hand scraper/detail sander
- Sanding belts and discs / grits 40/60/80

9.3- SPORT SEALER DATA SHEET - COMP.A AND COMP.B

INTENDED USE	Sealer for gymnasiums
TYPE OF RESIN	Comp. A: aqueous polyurethane Comp. B: water-soluble polyurethane
AFNOR CLASSIFICATION	Comp. A: Family 1, Class 7b2 Comp. B: Family 1, Class 6a
MIX DENSITY	1.03 (at 20°C, according to NF T 30020)
VISCOSITY	Comp. A: 170 to 220 centipoise according to appearance (BROOKFIELD) Comp. B: 400 centipoise (BROOKFIELD)
STATUTORY INFORMATION	Refer to the corresponding safety data sheets (SDS) available at www.blanchon.com
MIXING	9 volumes of SPORT® Comp. A + 1 volume of SPORT® Comp. B
SANDABILITY - COVERAGE	4 to 6 hours depending on temperature and relative humidity
PRECAUTIONS	Do not apply at temperatures below 12°C. Keep out of the reach of children.
TABER ABRASION RESISTANCE	Weight loss: 20 mg (CS 10 wheels, 1,000 rpm, 1 kg)
IMPACT RESISTANCE	50 cm (400 g punch) (according to NF T 30039)
SCRATCH RESISTANCE	7H pencil
RESISTANCE TO CLEANING PRODUCTS	40° alcohol, water, coffee, tea and ink: no adverse effects (after drying for 20 days, according to NF T 30053). Do not use ammonia or silicone-based products.

The information contained in this safety data sheet is given in good faith and for guidance only. We make no warranty regarding the information contained herein and disclaim all liability with respect to your use of our products.
This data sheet supersedes all prior versions.

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[1003] CONNOR SPORTS® REZILL SLEEPER FLOORING

9.4- INSTALLATION AND APPLICATION

MIXING

- Vigorously shake components A and B.
- The SEALER (Comp. A) and HARDENER (Comp. B) are mixed at the time of use.
- Take care to mix evenly. The mixture must be used within two hours.
- Do not dilute.

NOTE : SPORT® is supplied in a special packaging (separable container) that can be used directly for mixing and applying the product. Place the plastic bag in one half of the pre-cut container for creating the mixture. The mixture can also be made directly in the container.

Application

- Do not apply to flooring where the ground-level temperature is less than 12°C and the relative humidity is higher than 60 %. Do not use on wood with a moisture content in excess of 10 %. Only use in well ventilated areas.
- SPORT® is applied with a short nap roller in three even coats. The slightly «milky» appearance of the liquid sealer disappears during curing.
- After the first coat has cured, you are advised to lightly sand with a floor buffer (fine grit) and remove all dust.
- Coverage: 1 container = 100 m² / layer
  Apply in three coats of 300 g/m², i.e. three containers for 100 m².
  Apply each layer of sealer with criss-cross strokes, finishing in the direction of the flooring strips.
- Light sanding is essential if waiting more than 24 hours between coats.
- NOTE : wait at least 24 hours after applying the final coat of SPORT® before marking out game lines with the GERFLOR TLD AQUA PAINT.
- Playing surfaces (basketball centre circle, etc.) and edges are coated with the SPORT SURFACE paint (www.blanchon.com).

Cleaning tools

- Clean tools with water immediately after use. Do not reuse containers.
- Protect the environment:
  - Wring out cloths and wipe tools well after use.
  - Rinse with a small amount of water in a container and allow to evaporate.
  - The dry residue can then be discarded normally in the bin.
  - Close the container tightly after use.
  - Dispose of empty containers at your local waste recycling centre.
  - Do not pour down the drain.

9.5- DRYING, HARDENING AND REUSE

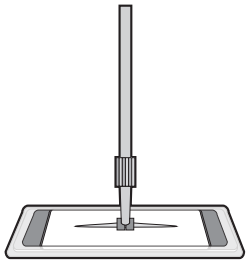
- Dust-free drying: 45 minutes under normal conditions.
- Drying before sanding / recoating: 4 to 6 hours under normal conditions.
- Do not wait more than 24 hours between coats.
- Final hardening: 8 to 10 days.
- Light traffic: approximately 24 hours.
- Reuse: take some precautions during the first 10 days: do not cover (protective sheets) or lay rugs on the sealed area. Do not install heavy equipment. Remove dust with a vacuum cleaner or broom (do not use impregnated textiles).
- Subsequently: use appropriate protector pads (felt) beneath the feet of equipment and other objects. If necessary, a high-quality mat at the entrance will trap dust and grit. Do not allow water or other liquids to pool on your sealed floor.

9.6- STORAGE

- SPORT® (Comp. A): protect from frost (be careful if storing in vehicles).
- SPORT® (Comp. B): not damaged by frost.
- Tightly seal both components after use. Important: you are advised to wipe the neck of the hardener container to prevent the lid from sticking

9.7- MAINTENANCE

- SPORT® allows all floors to be easily cleaned.
- Regularly remove dust with a vacuum cleaner or broom.
- Occasionally wipe with a damp mop (well wrung and never wet). Small stains and marks can easily be removed with BLANCHON PROTECTOR (www.blanchon.com) or a neutral detergent (at the normal concentration).
- **IMPORTANT:** wait 10 days before using the floor to allow SPORT® to harden fully.
- **DO NOT USE:** floor buffers, mops, silicone polishes, ammonia-based products, abrasive detergents, etc.
  Generally avoid all materials and products likely to add gloss or shine.



9.8- RENOVATION

Floors must first be sanded down to the wood before refinishing.

9.9- OTHER SEALERS

POLOPLAZ NSB PRIMER
http://www.poloplaz.com/nsb-sealer-residential/

POLOPLAZ EXPRESS SEALER
http://www.poloplaz.com/express/

FOR INFORMATION
- **Coverage:** 1 litre for 12.25 m²
- **Application with a short nap roller** (52 mm)
- **Curing time** between coats of 12 to 24 hours. If more than 24 hours, lightly sand the sealer before applying the next coat.
- **Application:** two coats of primer, one coat of paint (or two depending on the colour), two coats of sealer
- **Dust-free drying:** 2 days
- **Final hardening:** 5 days

10- GAME LINE PAINTING

10.1 - TLD AQUA PAINT - DEFINITION

Game lines are marked using TLD Aqua paint.
This is a water-based polyurethane paint that ensures permanent marking of game lines.
It is available in white for tennis, red for basketball, blue for volleyball, yellow for handball and black for badminton.

Gerflor will accept liability for the durability of the floor covering and the game lines ONLY if the lines are marked using **TLD AQUA** paint, which can be ordered from Gerflor.

10.2 - CLEANING

Accidental drips of fresh paint on the floor covering and tools must be cleaned immediately with acetone.

10.3 - TLD AQUA PAINT

10.3.1 - Surface preparation
- The surfaces to be painted must be clean and dry.
- Demarcate the game lines on each side with the adhesive tape.
- Clean the surfaces with a clean cloth.

10.3.2 - Paint preparation
- Pour the entire contents of the can of TLD hardener into the can of paint.
- Shake vigorously to obtain a fully homogenised mixture, which should be of pouring but not liquid consistency.
- The mixture is ready to use after 10 minutes. It must be used within 2 hours at 20°C.

10.3.3 - Application
- Check that the lines are correctly marked out before applying the paint.
- Apply two thin coats of the AQUA paint using a short-pile roller (tack-free time 20 minutes).
- Remove the adhesive tape within 24 hours, while inclining the adhesive tape towards the outside of the line.
- Accidental drips of paint must be removed immediately with water.

10.3.4 - Rules to be observed
- The lines can be walked on after a minimum of 72 hours' drying time at an ambient temperature of 15°C. However, actual curing will take between 8 and 10 days, so additional care should be taken to avoid any paint marks.
- Do not use T.L.D. Aqua paint below 15°C (ambient temperature) and below 12°C (floor temperature) or above 35°C (ambient temperature) and above 30°C (floor temperature). If the product is stored in a cold place, wait until it has reached this temperature before use.
  DO NOT STORE AT A TEMPERATURE < 2°C. Be careful if storing in vehicles.