

STUCK-DOWN LAYING ON A ISOLATING MEMBRANE

■ 1 - MATERIALS

Differences of width (tolerances) may exist between the rolls.

- The first thing to do is to scarify the subfloor making sure the removal of any adhesive, paint, plaster etc..
- Treat the high and the low points

High points: Take time to scarify or grind to obtain the correct levels

Low points over 6 mm: Make a saw cut around the perimeter of the low point to a depth of 6mm.

Apply some exterior self smoothing levelling compound (type ARDEX K 301 or equivalent). Then sand as required to the affected area.

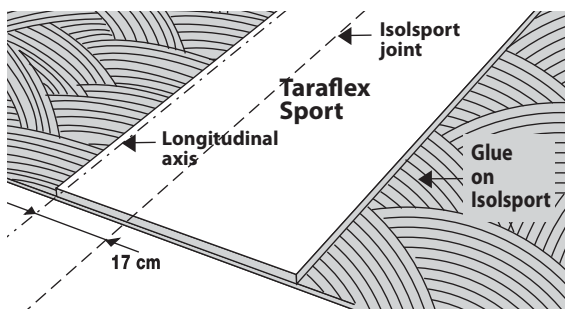
Low point less 6 mm: Apply epoxy resin liquid as required to the affected area.

- Sand all the subfloor, with a 60 Grit disc in order to eliminate any residual contamination ie adhesive, paint etc...
- DO NOT treat any sawn stress induced joints under 4 mm width
- Carefully vacuum clean the subfloor and the joints.

When sticking down flooring on Isolsport, preparation of the subfloors to render them EVEN, SMOOTH and SOUND is still necessary.

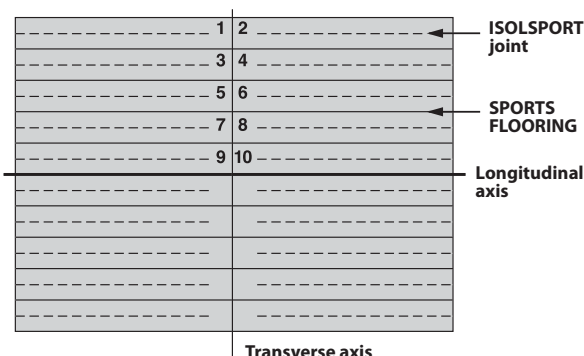
■ 2 - UNROLLING AND LAYING FLAT THE WATERPROOF MEMBRANE (WIDTH 2M) AND THE MATERIAL (WIDTH 1.5 M)

- The ambient temperature must be above 12 °C.
 - Strike the longitudinal axis and the start guide line at 17 cm.
- Unroll the waterproof membrane (ISOLSPORT) in the lengthwise direction of the sports hall, edge-to-edge with the black and white side faced down to the subfloor starting 0.17 m from the longitudinal axis and simultaneously the material, leaving a 1 cm between each rolls. The end of the flooring closest to the cardboard tube should be placed against the wall.



■ 3 - POSITIONING THE FLOORING

The following day, the laid out lengths will be butted up to the axis leaving a 1 mm overlap between each length before sticking.



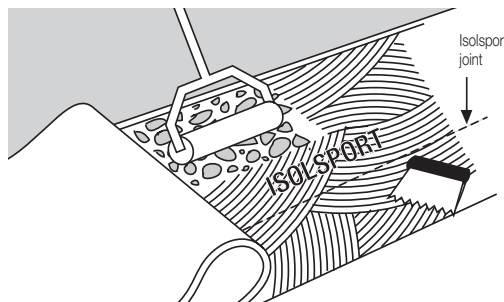
Once the flooring is in position, Isolsport will stuck-down (in strips of 20 cm) around the peripherie and the entire breadth of all doorways and accesses of the sports hall with a Polyurethane adhesive.

*We currently recommend one single glue: G 20 or G 21 from MAPEI.

■ 4 - ADHESION

4.1 - ACRYLIC ADHESION (COMPACT/COMPACT ADHESIVE)

Utilization of a compact/compact acrylic glue to install the flooring on a subfloor over the current regulation and the availability of a waterproof barrier (Polyane).



4.1.1 - Sticking-down

This operation takes place 24 hours after positioning the lengths.

The application can be done using acrylic emulsion adhesives applied with a finely toothed spatula A4 Norm TKB or a 'U' notch 1/32" x 1/16" x 1/32" (0.8 mm x 1.6 mm x 0.8 mm)

At a rate coverage of 150 to 200 g/sqm, 185 - 245 sq. ft. per US gallon (4.53 - 6.0m2 per liter).

Use after covering the glue a short wool paint roller to pass over the glue.

The quantity applied depends on the adhesive density.



To ensure the correct waiting time for adhesion and to eliminate any water, beads of adhesive which can form during application must be broken up by rolling out the surface with a lamb's wool roller. This process also gets rid of any water particles which could weaken the adhesive.

It is essential that the complete adhesive waiting time be respected.

Ambient room temperature and humidity greatly influence the adhesive waiting time.

To speed up this waiting time, we advise you to ventilate the room with any means to hand eg.air blowers, ventilators etc..

Recommendations for good adhesion:

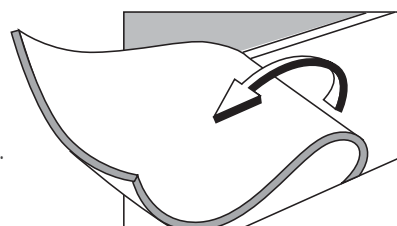
With the type of adhesive used to stick waterproof material to waterproof material, it is absolutely essential to respect the open time of the adhesive film. If the waiting time is insufficient, the flooring will bubble.

4.1.2 - Laying the lengths

For the sticking-down, fold the lengths back in half (see diag.).

Start with the half-strips in the centre of the sports hall located on either side of the first marking out line.

Fold back the second halves and proceed in the same way; then apply the following lengths edge-to-edge without leaving a gap and continue in the same way finishing at the walls.



4.2 - STICKING-DOWN WITH POLYURETHANE

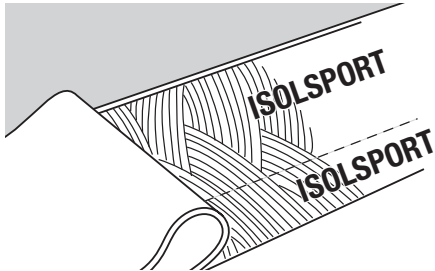
A TWO-PART Polyurethane adhesive can be used to install the flooring on a subfloor without a waterproof membrane.

4.2.1 - Sticking-down

This operation takes place 24 hours after laying out the lengths. The application can be done with a TWO-PART* POLYURETHANE glue applied by using an A5-type TKB standard spatula.

*We currently recommend one single glue : G20 from MAPEI.

N.B.: The quantity applied depends on the adhesive density.



Recommendation for good adhesion:

The adhesive must be applied relatively quickly as the going off time in the container is very short. We recommend you to prepare small quantities at a time (for a surface of max. 20 sqm).

4.2.2 - Laying the lengths

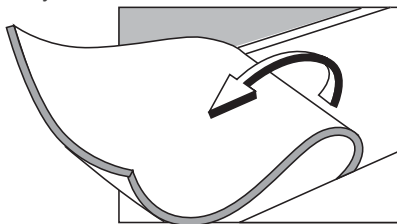
When applying the adhesive, fold the lengths back in half.

Start with the middle half-strips in the centre of the sports hall located on either side of the first marking out line.

Fold back the second halves and proceed in the same way; then apply the following lengths edge-to-edge without leaving a gap and continue in the same way finishing at the walls.

The application of the lengths will be done immediately after rolling out the glue threads and the lengths should be smoothed out manually as work progresses.

Polyurethane adhesives have no waiting time and can't withstand high rates of humidity.



5 - ROLLING

5.1 - FOR ACRYLIC ADHESION

This operation takes place in two stages :

- Manual rolling to be done whilst applying the lengths.
- Rolling with a flooring roller several times after sticking-down the lengths start from the transverse axis. This waiting 1 hour at least after application.

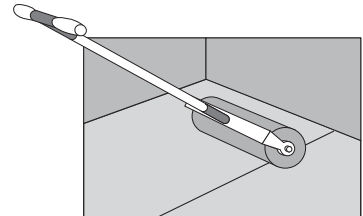
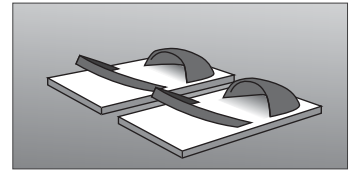
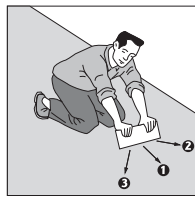
5.2 - FOR POLYURETHANE ADHESION

It is done in three stages :

- Manual rolling with a cork block; it is necessary to use weight underlayment plates (fig. 1) when moving over the flooring.
- Rolling with a flooring roller (fig. 2) having waited at least one hour, using weight underlayment plates to move across the floor.
- Final rolling one hour later.

In case of eventual bubbling, the bubbles must be expelled before the adhesive is dry.

Any movement on the flooring before the adhesive has dried must be done using the weight underlayment plates.



6 - HOT WELDING

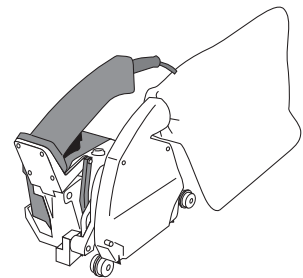
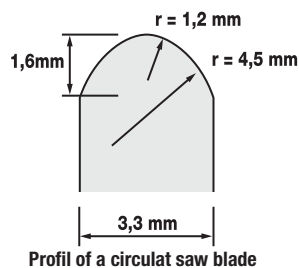
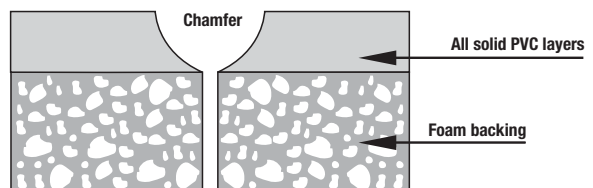
6.1 - Grooving

This operation entails opening up the joint, levelling it off and then removing surplus adhesive which could weaken the weld.

There are two ways of grooving:

- manual grooving with a suitable tool (triangle, ruler)
- mechanical grooving with an electrical grooving machine equipped with a trapezoidal cutter.

It is necessary to groove through the thickness of the wearlayer.



6.2 - Automatic welding

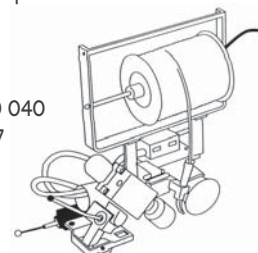
This is done using a UNIFLOOR type LEISTER welding trolley with electronic hot air welding gun and a narrow multi-outlet nozzle designed for this purpose.

Réf of the nozzle:

ROMUS : 95254

JANSER : 225 860 040

LEISTER : 105 407



*We currently recommend the narrow nozzle

Ref : JANSER 225 860 300

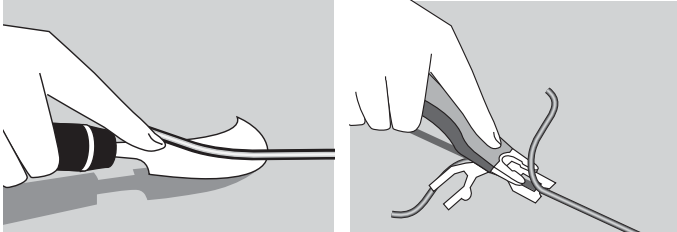
6.3 - Trimming weld rod:

Trimming must be done in one pass.

Using a trimming tool sharpen in the middle only, such as the Mozart, is recommend:

Trim has to be done with the trimmer only

This method prevents concave welds and must be done when the rod is cold.



Available from Gerflor - Ref. 0561 0001 - Spare blade - Ref. 0542 0001

6.4 - Finishing

There are accessories which achieve excellent finishing around the reserve allowances:

- Circle cutter fitted with a center circle cutter



IMPORTANT: Should you require information concerning the material, GERFLOR is available for advice.

IMPORTANT : commissioning deadlines:

- For normal walking traffic commissioning occurs at least 24 hours after completion of the works.
- For implementation of sporting equipment and rolling load traffic wait 72 hours.
- Because of foam underlay thickness, weight distribution plates must be installed under heavy static and dynamic loads.