Flooring Guidelines

J&C Joel
Inspiration in every performance

Performance Flooring Semi Permanent laying methods

Depending on the application area and on the technical requirements you can choose from the next methods:

LOOSELAY INSTALLATION: Recommended especially for touring shows, exhibitions, events, TV & film studio, ceremonies. First, the floor is rolled out then the seams are covered with adhesive tape, normally 50 mm wide.

SEMIPERMANENT INSTALLATION: Recommended especially for stages, TV & film studio, multipurpose halls allow a vinyl floor to be temporarily laid or reused. Semi- permanent lay consists of fixing the vinyl with doublesided tape under the seams then taping over the top of the seams. Alternatively, the seams can be hot or cold welded instead of taped.

LOOSELAY INSTALLATION

Taping the surface of your floor is very simple: unroll the floor strips side by side. Unroll and fix a few centimetres of adhesive tape onto the seam between the two first strips. A second person may help by putting a foot on the end to hold it tight, then unwind the tape in a straight line and fix it onto the seam.

It is recommended to allow for extra adhesive tape on areas exposed to frequent traffic, such as at the entrance area for example.

Tapes recommended: 50mm wide, onesided PVC tape.

SEMIPERMANENT INSTALLATION

1. Unroll all the floor rolls that you have previously cut to measure in the direction of the lay of the floor. Make sure that they are laid straight.
2. Starting from the side of the room opposite the entrance, lift half of the first laid strip and flip it onto the part of the strip which still lays flat on the floor.
3. As the first strip is now partly lifted and flipped backwards on its halflength, remove the bottom protection strip of the doublesided tape and fix the tape onto the floor by aligning it with the adjacent strip of vinyl. The doublesided tape will indeed be fixed to each side of the seams between the two floor strips.
4. Now lay the previously lifted strip of vinyl floor onto the upper protection strip of the doublesided adhesive without removing the strip.
5. Repeat steps 1 and 2 so to attach the second part of the first roll.
6. The whole length of the first strip has already been unrolled and prefixed.
7. Starting from one of the two ends of the first laid strip of vinyl, remove the upper protection strip of the doublesided tape and gently push on the vinyl floor to fix it to the adhesive tape.
8. The first strip of vinyl floor has already been fixed.
9. Repeat steps 1 to 7 until all the remaining strips have been fixed.
10. The seams are now ready to be covered with singlesided tapes or to be hot or cold welded.

Tapes recommended: removable, 50mm wide, plasticizer resistant double side tapes, e.g.TESA 4964 or similar.

United Kingdom
+44 1422 833835
uksales@jcjoel.com

United Arab Emirates
+971 4 884 7801
menasales@jcjoel.com

www.jcjoel.com

PERMANENT INSTALLATION

The permanent lay technique means completely fixing the flooring using glue. The seams are sealed either by hot or cold welding.

We strongly recommend having experienced professionals prepare hot and cold welding. Before beginning the covering procedure make sure that the subfloor perfectly clean, flat, permanently dry, free from cracks and antiadhesion substances (e.g.paint, oil, grease, and plaster, adhesive).

The present preparation and laying guide is based on the Henkel Thomsit products but the products having similar parameters of any manufacturers (e.g. Mapei, Murexin, Uzin, Bostik, FBall, etc…) can be used.

The next laying method concerns the case of concrete/cemented subfloor.

After dust removal the concrete subfloor should be pretreated with a primer (e.g.Thomsit R 777 dispersion primer diluted with water in a portion of 1:1 or with this equivalent). The primer binds the residual dust, closes the pores and forms an adhesive bridge for the base flattener.

After the total imbibition of the primer the irregularities of the base should be eliminated by means of the proper base flattener. For choosing the magnitude of stresses and the deadline for installation should be minded. The mass properly diluted and mixed with water should be spread by means of a trowel. Then it should be deaerated by means of a spiked aeration roller. After drying the spatulated surface should be sanded and dedusted.

Installation of Performance floors without Vaporex membrane:

Our performance floor coverings should be conditioned and freed from stresses on site - at a temperature of 18 C˚ at least - 1 day before of laying down. The conditioned floor covering should be cut with a margin at both ends, then laid down abutting, precisely tailored the edges. It is recommended to lay down the rolls longitudinally.

Gluing

The tailored stripes can be fastened to the properly prepared concrete base in two ways.

Wet gluing

In case of absorbent subfloors acrylic water dispersion adhesive (e.g. Thomsit UK 400) should be used. The adhesive should be applied on the subfloor only by means of a spatula of B1 teething; material requirement: approx. 400g/m2.

Contact gluing

Contact gluing can be used in case of absorbent or nonabsorbent subfloors as well.

• In case of absorbent subfloors, we recommend using contact adhesive glue (Thomsit K 188E or equivalent with this). The adhesive should be applied on the subfloor only by means of a spatula of A2 or A4 teething; material requirement: 250350 g/m2.

• In case of nonabsorbent subfloors (e.g. PVC gluing on PVC substrate) it is recommended to use only contact adhesive glue (e.g.THOMSIT K 188 E or similar) the adhesive should be applied on the subfloor only by means of a spatula of A2 or A4 teething; material requirement: 250350g/m2. In case of nonabsorbent subfloors, you can use 2component PUR or 2component epoxi glue, as well. In case of permanent application our Performance floors can be installed also in case of under floor heating, the before mentioned adhesive types are suitable as well.

Before gluing the strips should be folded up halfway and the selected adhesive should be applied. The manufacturers specify the ideal gluing conditions on all boxes of adhesives. These instructions should be strictly followed.

For the optimum adhesion the covering should be carefully pressed down – beginning from the middle – by means of a manual rubbing cork paying attention not to leave any air bubble under it. Finally the glued covering should be pressed down by a roller. The other half of the strip should be laid in the same way.

Welding:

Heat welding:

The made covering should be grooved along the joints in the proper depth and width with a grooving machine or a hand groove tool and the groove should be cleaned from the possible dirt. For welding the 4.0mm variation of Weld should be used. For Extreme 80 use 4,5mm diameter welding rod.

The temperature of the welding machine should be set between 45 grades. Welding can be made with an automatic mobile welding machine or handwelding tool.

Before beginning the procedure, it is recommended to make a trial welding in order to set the optimum temperature and speed.

After the weld seam cooled down the excess welding cord should be removed in two steps. First the cord should be halfcut by means of a slide and a quarter moon knife, then after total cooling flushing should be made with a quarter moon knife.

Heat welding in the corners:

From the perspective of the flooring external and internal corners are distinguished. Fitting of welds in internal corners can be performed in two ways: either by precision cutting and subsequent silicon filling of the seam, or by „halfrod" welding. In the latter case, the welding rod cutoffs from the first trim can be used to fill in the vertical seams by pressing them into the vertical grooves with the rounded side down and then applying heat coagulation to the joints. The excess welding rod should be trimmed off. It is recommended to preheat the coves before welding the joints. Precision cutting is important for external corners as well. Corner welding should be performed with a welding rod.

Cold welding:

For Performance floors another welding method is the coldwelding technology. The seams can be easily and quickly welded.

The coldwelding technology consists of 3 steps:

• Paper adhesive band should be put and fastened with a pressure roll onto the joints of the closely fitted PVC stripes.

• The adhesive tape should be simply and definitely cut through in the seam range by means of a circular knife or a trapezoidal knife.

• The nozzle of the coldwelding tube should be pushed with one hand into the seam and should advance along it. The coldwelding agent should be fed by the other hand, so that the adhesive band becomes wet in a width of 5 mm. The adhesive band should be removed after 10 minutes.

The result is an almost invisible and waterproof seam.

A successful coldwelding procedure needs the tools on the picture. More information about the cold welding is available at the homepage www.muellerpvcnaht.de.