



NEOFLEX™ LAYOUT, DESIGN AND INSTALLATION

NOTE BEFORE COMMENCING

(1) The customer or main contractor should always be made aware of the duration of the installation and limitations involved with rubber surfacing. No other trades are to be allowed in or around the work area 24 hours before installation and 7 x full days afterwards.

(2) Only Rephouse specified materials are to be used. Any and all chemicals, whether adhesive or top coatings should be kept from frost, rain or excessive heat. Any adhesive or top coatings that have been exposed to these elements voids any warranty.

(3) The sub-grade and sub-surface shall be constructed to a qualified Engineer's specification however, no significant settlement should occur of either as a result from its own weight or removal of soil.

(4) If the sub-surface shall be constructed out of asphalt then it should be done in accordance to DIN 18035, Part 6 specifications. Asphalt shall be left to cure for a minimum of 14 days after completion.

(5) If the sub-surface shall be constructed out concrete then it should be done in accordance to a qualified Engineer's specification. Concrete shall be left to cure for a minimum of 28 days after completion.

(6) The finished sub-surface shall be smooth and trimmed and have no compaction or trowel ridges and shall not vary from the required levels by more than 4mm measured under a 4m straight edge,

measured in any direction. For outdoor installations, any resultant ponding of water after flooding, the sub-surface shall be corrected until no pond is deeper than 1mm.

(7) For outdoor installations, the sub-surface should be constructed with a designed slope of $\leq 1\%$. Please consult the technical requirements involved for the construction of the relevant facility proposed.

(8) Make sure the sub-surface on which Neoflex™ will be installed is completely dry and clear of all foreign matter and free of dust, dirt, oil or any kind of spills.

(9) Make sure all sub-surface requirements have been complied with:-

(a) Curing compounds on concrete, if used, must be mechanically removed from the concrete surface prior installation of Neoflex™.

(b) Contamination can affect the bond of the rubber flooring and must be removed. Types of contamination are:

- *Oil, grease, or food fats* can usually be burned off with a flame gun or removed with a commercial degreasing compound or solvent, or mechanical methods.

- *Curing compounds, sealers, and other laitance* are best removed mechanically with: vacuum blasting, scarifying, sand blasting, shot blasting.

(c) Test for moisture: Rubber flooring system bond failures on slabs on grade caused by moisture vapor transmission are the industry's largest single problem and result in extreme frustration from owners, clients, and contractors. Rephouse recommends testing for moisture by one of the following methods:

- *ASTM D4253 (Plastic sheet test)*: Place plastic sheet on concrete slab for 24 hours. If moisture has collected or slab has darkened, the vapor transmission is too high for a successful rubber flooring application

· *Calcium Chloride Crystal Test:* The maximum allowed water/vapor transmission rate is 2 pounds per 1000 ft²/ 24 hours.

(10) For all Neoflex™ surfacing installations, normal resilient sheet/roll surfacing installation practices should be followed.

(11) The Neoflex™ surfacing will follow the contours of the sub-surface which it covers. The smoother the sub-surface, the better the Neoflex™ surfacing finish.

General Specifications Installation

(I) The installation of Neoflex™ should not begin until all works and trades have been completed and the complete area cleared of extraneous materials. If the requirements are as such that Neoflex™ surface must be installed before other trades have completed their work, the installed Neoflex™ surface should be covered with a suitable protective covering.

(II) For interior installation, all rooms, Neoflex™ surfacing and adhesive should be left to acclimatize at a minimum temperature of 20°C / 70°F for at least 24 hours before, during and after the installation is completed.

NOTE

To minimize installation difficulties, avoid extreme temperatures between storage and installation areas. For optimal ease, store material at room temperature (20°C / 70°F).

(III) For fully adhered installations, spread adhesive evenly and at the recommended rate. Weights such as sand bags have to be used on the edges, corners and seams of the Neoflex™ surface installation until the adhesive is cured. Do not overlap adhesive applications as this will cause butt-joints to 'stand up' along the seams.

(IV) For fully adhered indoor installations, a two-part polyurethane adhesive such as Rephouse's PU88 or two-part epoxy adhesive may be used or any

adhesive that has been tested and recommended for use with Neoflex™.

(V) For fully adhered outdoor installations, a one-part solvent based polyurethane or two-part polyurethane adhesive such as Rephouse's PU88 may be used or any adhesive that has been tested and recommended for use with Neoflex™.

(VI) Before the installation of any Neoflex™, the surface must be examined for moisture test for moisture vapor transmission or high moisture content using ASTM-D-4263 - Standard Test Method for Indicating Moisture in Concrete by the Plastic Sheet Method.

NOTE

We do not recommend indoor Neoflex™ loose lay or taped installations where the Neoflex™ flooring system will receive direct sunlight. Adhesive is recommended to prevent movement due to extreme temperature differences.

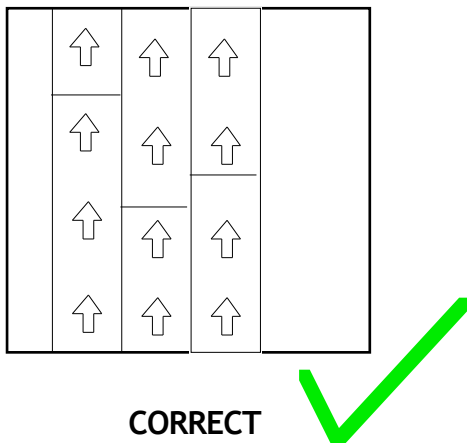
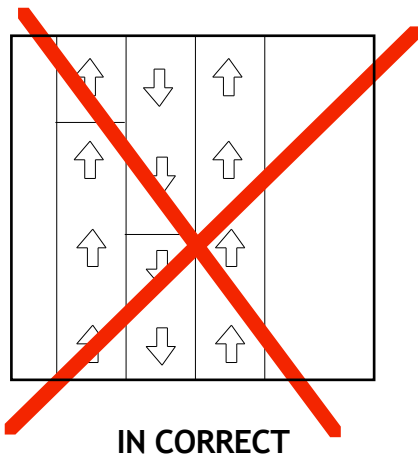
(VII) Neoflex™ may be installed in a loose lay format. Loose lay applications done indoors are based on the installer's recommendations and the end user's requirements. All Neoflex™ surfacing must be laid out to 'relax' prior to installation.

(VIII) Neoflex™ may be installed using double sided High Density (H.D.) tape. This tape will be required around the total perimeter of each mat/roll. Apply additional tape approximately 30 ~ 40 centimetres (12" - 18") from the end of each roll to overcome any potential curling of the Neoflex™ mat.

Lay Neoflex™ with the correct face down and form a tight butt together and eliminate any gaps. Lift the corner of one Neoflex™ mat and peel the film from the double sided H.D. tape until it is long enough to place the mat back down on to the tape.

The film on the double sided H.D. tape can then be peeled off progressively while the Neoflex™ mat is being laid down.

(IX) All Neoflex™ surfaces must be unrolled and installed in the same direction i.e. start all rolls from one side of the room see diagrams below:



NOTE

Allow sufficient time for adhesive to cure properly prior to allowing foot traffic onto Neoflex™ surfacing Use caution whenever using razor knives or similar cutting devices to prevent accidental injuries.

(XII) Lay Neoflex™ with the correct face down and always in the same direction. Form a tight butt between rolls and eliminate gaps.

(XIII) To achieve tight seams, certain situations may dictate that it will be necessary to trim sides and or the ends of the rolls of the Neoflex™ surfacing (such as undulated and contoured sub floors).

(XIV) After the Neoflex™ surfacing is placed into the adhesive and jointed, it is recommended that the entire surface be rolled using a 50 kg. hand-held flooring roller. This is done to embed Neoflex™ into the adhesive and eliminate any entrapped air and must be done simultaneously.

Weights such as sand bags must be placed on edges, seams, corners, ends until such time the adhesive has set. It may be necessary to roll the installed Neoflex™ repeatedly for up to 2 hours but should never stop until the adhesive has set. Rolling the Neoflex™ surface ensures a proper bond to the sub-surface.

(XV) care should be taken when embedding Neoflex™ into the adhesive. Do not to drag the Neoflex™ surface across the adhesive, thereby possibly contaminating the adjacent sheet.

(XVI) allow the adhesive to cure for a minimum of 12 x hours before applying any optional sealer to the Neoflex™ floor.

(XVII) Neoflex™ can be field cut by utilizing a razor (or Stanley) knife and a straight edge.

(XVIII) Reducing strips, edge guards and corner strips manufactured from metal, vinyl or rubber may be used by the installer at his discretion.

(X) Each roll of Neoflex™ is labelled on the underside advising the direction of rolling and which face of the roll is to be placed down on to to sub-floor. Please follow these instructions carefully to avoid potential installation problems.

(XI) Spread adhesive evenly and at the recommended rate. Weights such as sand bags have to used on the edges, corners and seams of the Neoflex™ surface installation until the adhesive is cured. Do not overlap adhesive applications as this will cause Neoflex™ to ‘stand up’. The finished appearance will be effected as this level difference is ‘telegraphed’ through the Neoflex™ surface. This is especially important along the seams.

(XIX) Game lines may be painted directly onto Neoflex™ using a 2-component non-yellow aliphatic polyurethane line paint

(XX) Refer to optional Fresh Finish guidelines for finishing options before handing over work to the customer.



© Rephouse