



## **NEOFLEX® DUO TILE**

### **INSTALLATION MANUAL**

Neoflex® Duo Tiles and accessories by Rephouse can be installed on concrete except for limitations noted herein.

*NOTE: All Neoflex® Duo Tiles and accessories must be stored in a clean, dry place prior to installation.*

*NOTE: Dimensional tolerance for Neoflex® Duo Tiles is  $\pm 0.5$  mm for thickness and  $\pm 1$  mm in width. It may be necessary to hand select some tiles to make sure the course lines remain straight during the installation. Course lines may be 'forced' by using a 75 mm high x 2 m long angle iron held in place until such time the adhesive has set. Additionally, colour tone and shading may vary to the extent that some hand selection is required to maintain uniformity throughout the site.*

*NOTE: Neoflex® Duo Tiles are largely manufactured from recycled materials and slight variance in shade and dispersion is normal. It is the installer's responsibility to inspect all products to ensure the correct style, thickness, and colour. Any moderate to severe discrepancies should be reported immediately before beginning installation.*

### **PRE-INSTALLATION**

BS 8203:2001 - A1: 2009 *Code of Practice for Installation of Resilient Floor Coverings* should always be read and followed with the addition of these specific instruction below which supersede the standard.

Acclimatize flooring product inside space for 48 hours. This is best done by laying out Neoflex® Duo Tiles on the concrete sub-floor in sufficient quantity for a planned installation. Avoid stacking Neoflex® Duo Tiles directly before installation.

Installation space must be climate-controlled. A stable atmosphere prevents stress to the floorcovering. An ideal atmosphere is ambient temperature between 18°C to 27°C and relative humidity maximum 70%.

The sub-floor temperature is also important and should be at a minimum 15°C and maximum 27°C.

Un-even sub-floor will spoil the appearance of the finished installation as undulations will "telegraph" through the rubber floor and tile corners may not meet. Flatness should not exceed 3 mm in a 3 m circular span. Laying a 3m long aluminium straight edge on the sub-floor and measuring any gaps below the straight edge is best to check flatness. If flatness exceeds specified limits, install a 3 mm thick self levelling cement underlay or grind the sub-floor smooth to within the specified limits.

Cracks and 'hollow' areas in sub-floor must be repaired.

The sub-floor must be structurally sound.

Sub-floor needs to be dry. The Neoflex® Duo Tiles should not be laid until a hygrometer test is carried out in accordance with BS 8201:1987, A,1, gives a reading of not more than 75% relative humidity.

All contamination should be removed prior to applying floors. Oil is a serious problem that may require the removal of the entire screed.

Sunlight can affect the temperature in a room particularly in conservatories and rooms with south facing windows. In such instances the sunlight needs to be controlled. This can be achieved with temporary blinds or films applied to the glass.

*NOTE: Do NOT proceed with installation unless above conditions have been met.*

## INSTALLATION

*NOTE: no warranty, whether expressed or implied, is provided if Rephouse's recommended adhesive is not used in the installation.*

Sweep and/or vacuum area clear of all dust and loose debris.

Determine a starting point for the first course of tile to best suit the site area with minimal wastage. The best starting point is in the center. This will ensure a symmetrical finish for tiles that require trimming along the perimeter.

Mark two points on the base surface at an equal distance from the edge of the installation. These points should be located near the opposite ends of the site in the lengthwise direction.

Snap a chalk line through the established points.

Measure the length of the site along the chalk line. Mark a point at half the distance of the site.

Using the 3-4-5 right triangle method, snap a chalk line to form a 90° angle to the previously established length-wise chalk line. These perpendicular reference lines will serve as a guide for laying the first course of tile.

Neoflex® Duo Tiles can be installed using a variety of installation methods. The most common and secure method is full adhesion of tiles and accessories to the substrate using Rephouse's PU88 Adhesive a 2-part polyurethane adhesive.

## FULLY ADHERED INSTALLATION

The tiles, accessories, and substrates must be dry before, during, and 48 hours after the application of adhesive. Application temperatures for PU88 Adhesive is 18°C to 27°C. Higher temperatures and humidity levels will cause the adhesive to set faster and colder temperatures and low humidity will slow down the curing process. The installer should monitor on site conditions and adjust open times accordingly.

Approx coverage rates for the PU88 Adhesive are approximately 0.70 kgs/m<sup>2</sup> on smooth concrete.

Using a B2-serration notched trowel trowel, apply the PU88 Adhesive consistently and slightly wider than the tile being placed.

Place tile into the fresh adhesive bed following pre-established lines. Weight down rubber tiles until adhesive has set – this is best done with 15 kg sand bags or large concrete bricks with plywood underlay\*. If applicable, place ramps into the fresh adhesive in a similar manner. It may be necessary to hand select some tiles to make sure the course lines and corners remain straight during the installation. Course lines and tile corners may be 'forced' by using a 50 mm high x 2 m long angle iron held in place until such time the adhesive has set. (\* concrete bricks should be sealed with plastic bags to avoid concrete dust contamination. It is best to place a 4 mm thick plywood sheet (300 mm wide) below the concrete brick to spread weight).

NOTE: make sure that the adhesive bed laid beyond the tile is not allowed to harden before the next tile is installed. Failure to follow this instruction may result in unsightly joints that are not level. It is best to feathering finish the adhesive bed laid beyond the tile using a flat trowel.

Allow 24 hours for adhesive to cure before opening area for use.

Avoid leaving a cut edge of a tile exposed to eyesight. To ensure a finished appearance, any tile that has its factory moulded edge removed or cut for any reason should be positioned against a transition ramp, masonry, or other edging unless the edge is to be placed against a wall or other vertical member. Use either a silicone sealant or a permanently elastic urethane sealant/adhesive for filling gaps, if any, between cut edges and walls.

The most accurate cuts are made using a heavy-duty utility knife and a straight edge.

When working beneath a fitness structure, it will be necessary to occasionally notch out portions of tiles so that the tiles will properly fit around the posts supporting the fitness equipment.

Cut tile so that the cutout is approximately 5 mm larger in all dimensions than the support it will surround. The extra distance is to prevent binding of the tile around the support. Voids between the equipment supports and tile cuts should be filled in with silicone sealant or a permanently elastic urethane sealant/adhesive.

## **POST INSTALLATION**

Clean and vacuum the completed Neoflex® Duo Tile floor to remove dust and debris.

Clean the Neoflex® Duo Tile floor according to the Neoflex™ Maintenance Instructions.

Protect the completed Neoflex® Duo Tile floor with a breathable, non-staining, untreated building paper until handover to the client.

Do not move heavy and sharp objects directly over surfaces. Place hardboard or plywood panels over flooring and under objects while they are being moved. Slide or roll objects over panels without moving panels.

*NOTE: The above data, particularly the recommendations for installation is based on our knowledge and experience. Due to varying conditions during installations, which are beyond our control, Rephouse can not be held liable. Except for a wilful act, any liability based on such recommendations or any oral advice is hereby expressly excluded.*

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