

# Installation & Maintenance Guide

## GRP Anti-Slip Flat Sheet

### Installation Guide

#### Handling

Safe handling practices should always be employed. Store the covers flat upside down.

#### Cutting Anti-Slip Flat Sheets (where required)

Blue Diamond Anti-Slip Flat Sheets can be easily cut to size or shape using orbital cutting equipment with either a stone or diamond blade. Cutting should be carried out externally or where there is dust extraction/suitable ventilation and appropriate protective equipment must be worn.

#### Preparation

Any damage or undulations to the receiving substrate should be remedied to ensure that the Flat Sheets will be on a flat and even surface. If using an adhesive the substrate must be clean and dry, free from oils and grease, dust and loose particles. The underside of the sheet must also be clean, free of dust and completely dry. Where the substrate is contaminated, for example by oil or particles, or its surface strength is wanting, mechanical fixing is essential. Prior to applying an adhesive it is advisable to first carry out a dry-fit to ensure a suitable fit first.

We recommend a double fixing method for installing Blue Diamond Anti-Slip Flat Sheets consisting of a high strength adhesive and mechanical fixings.

#### Mechanical Fixing Anti-Slip Flat Sheets

Blue Diamond Anti-Slip Flat Sheets can be drilled and secured with pozi self-tapping screws after following the preparation procedure:

1. Mark out the desired fixing points on the top of the sheet with pencil then pre-drill with a suitable HSS drill bit.
2. Fixing is generally recommended at approx. 30mm in from any edge and at a maximum of 400mm centres.
3. Where the substrate is concrete, always ensure that the screw length is slightly longer than the plug length to obtain a solid fixing.

The installer should ensure that the substrate is of sufficient quality to achieve a secure fixing.

Where forklift trucks or other vehicles cross the walkway, extra fixings should be installed at maximum 200mm centres. In any event if the substrate undulates or is not flat extra fixings should be installed.

#### Screws Quantity

As an approximate guide, using the guidance above 28 No. fixings should be sufficient to mechanically fix one 2400mm x 1200mm Blue Diamond Anti-Slip Flat Sheet, which is approximately 10 No. fixings per 1m<sup>2</sup> of flat sheet. We would always recommend purchase at least 10% more than the quantity you calculate, especially if there are to be cut shapes. Fixings can be purchased from Blue Diamond.

## Bonding Anti-Slip Flat Sheets

Once our preparation guidelines have been followed the Flat Sheets can be bonded as follows:

1. Run a 6mm bead of adhesive around the underside perimeter of the flat sheet about 15mm in from the edges and cross hatch at about 200mm apart.
2. Use hand pressure to bed the flat sheet into position evenly.
3. Optimum bonding will be obtained around 48 hours after application at 23°C. However, the Flat Sheets can be walked on a few hours after bonding subject to temperature. We therefore recommend testing first.

When bonding the sheets we would also recommend the use of mechanical fixing to provide a secondary fixing – in this case the holes must be pre-drilled before applying the adhesive, to avoid dust contaminating the adhesive.

## Adhesive Quantity

As an approximate guide, with a 6mm bead 1 x 300 ml tube of adhesive sealant should be sufficient to bond one 2400mm x 1200mm Blue Diamond Anti-Slip Flat Sheet, which is approximately 100ml of adhesive per 1m<sup>2</sup> of flat sheet - please note that the usage is entirely dependent on the method of application and the condition of substrate. We would always recommend purchase at least 10% more than the quantity you calculate, especially if there are to be cut shapes. Adhesive sealant can be purchased from Blue Diamond.

## Miscellaneous

These installation instructions are in no way intended to be comprehensive but should be used as a guide. Always employ safe practices. It is recommended that to first test the suitability of any fixing method on a small area before carrying out a full installation programme.

# Cleaning & Maintenance Guide

## Cleaning Anti-Slip Flat Sheets

Use of a stiff brush will usually be sufficient to remove everyday dirt and debris. For more stubborn items a mild detergent can be used with warm water.

Prior to carrying out a full cleaning programme it is advisable to first test the suitability of the detergent on a small inconspicuous area.

Once the cleaning programme has been completed it is important to ensure that any excess water has been removed from the floor sheets surface before it is put back into use.

Be aware that yellow sheets are prone to discolouration through lack of correct cleaning, so a rigorous cleaning program is essential to maintain a clean finish.

## Pressure Wash

If conditions allow, a pressure washer on a low setting can be used to clean the floor sheet. However, if the floor sheet has been secured with an adhesive agent or sealed with a sealant repeated use of a pressure washer could undermine the integrity of the adhesive / sealant.

Again, prior to carrying out a full cleaning programme it is advisable to first test the suitability of the pressure wash on a small inconspicuous area.

### **Spillages**

Spills should be cleared up immediately. This should occur with consultation of product data sheets and in harmony with the company's own safety procedures.

### **General Routine Maintenance**

The security of any fixings and the integrity of the products gritted surface and GRP substrate should be checked on a regular basis. The frequency of which will depend on the nature and volume of footfall. As a guide, for high traffic areas monthly inspections would be advisable.

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