

# Flexibond Adhesive

## Two Component Polyurethane Adhesive For Synthetic Sports Surfaces

### INTRODUCTION

Sport-Fix Flexibond Adhesive is a two component polyurethane based adhesive system primarily designed for bonding short pile sand free or sand dressed carpet directly to a rubber shockpad or tarmacadam base. Alternatively it is suitable for bonding prefabricated rubber shockpad directly to a sub base of concrete or tarmacadam.

### FEATURES

- Solvent free non-flammable adhesive.
- Structured non-slumping consistency.
- Tough weatherproof bond.
- Beads or trowels easily onto sub surface.
- Flexible bondline avoids hard glue line under the surface.

### METHOD OF USE

IMPORTANT: Before embarking on any work involving Sport-Fix Flexibond Adhesive the Health and Safety Data Sheet should be carefully studied by those carrying out the work.

### MIXING PROCEDURE

Sport-Fix Flexibond is mixed thoroughly with Hardener Additive at a ratio of 10:1.2 by weight by first adding the hardener component to the adhesive component in the plastic tub.

Mixing in all cases should be carried out thoroughly by using a mechanical stirrer, for example a powerful drill with a suitable mixing head.

Poorly mixed adhesive does not cure correctly and remains soft. It is therefore essential that mixing of the two components is complete particularly around the sides and the bottom of the tub.

### APPLICATION METHODS

Before use, individual substrates should be evaluated for bonding performance prior to any large-scale application.

This Sport-Fix mixed adhesive should never be applied onto wet substrates as this interferes with the curing system and will result in inferior bonds. However Flexibond Adhesive is tolerant to use in damp weather conditions.

Sport-Fix Flexibond Adhesive is suitable for bonding non-sand filled or sand dressed short pile synthetic sports surface carpet to a rubber shockpad, or suitable flat sub base of tarmacadam or concrete. Alternatively it can be used to bond prefabricated rubber shockpad directly to a sub base of concrete or tarmacadam. The Flexibond 2-part adhesive is thoroughly mixed as described and is then suitable for bead application onto the sub base. Various methods can be adopted to apply the adhesive.

- 1) Use of a compressor and pressure pot extrusion system linked to a flexible hose and T-bar with holes that enable extrusion of 3 - 5 mm beads at 50 mm intervals.
- 2) Use of a container with outlet holes into which mixed adhesive can be poured and beaded out evenly onto the sub surface.

### BONDING PROCEDURE FOR CARPETS

The adhesive, when applied, has an open time of at least 30 minutes at 20 - 25°C, longer during cooler application periods. The carpet is usually pressed into the applied adhesive beads and lightly rolled to ensure a good transfer of adhesive from the sub base to the carpet. It is important to lay the carpet flat and remove any creases, as this is difficult once curing of the adhesive commences. Any areas of the carpet that will not lay flat naturally should be weighted into the wet adhesive. Lightly sanding dressed carpet immediately is an excellent way of ensuring the carpet remains flat until curing occurs. Alternatively a second light rolling should be carried out at the stage when the adhesive is partly cured and will exhibit excellent grab properties. Application of adhesive in a regular bead pattern will ensure drainage of water through the bonded system.

### BONDING PROCEDURE FOR RUBBER

Prefabricated rubber shockpad is sometimes required to be bonded to the sub base. In order to preserve free drainage, Sport-Fix Flexibond Adhesive is highly suitable to bond the rubber to the sub base by bead application. In all respects the methods used for bonding carpet can be followed for rubber; normally the weight of the rubber ensures good contact between the bonded surfaces. For small areas where drainage is not important, then the adhesive can be trowelled over the whole sub base area before laying the rubber into position for permanent bonding.

### BONDING PROCEDURE FOR CONCRETE

Sport-Fix Flexibond Adhesive is suitable for bonding to concrete surfaces, after the recommended setting period has elapsed. We recommend the use of suitable primers when the application is to a non-screeded concrete surface. Brands of concrete hardeners and dust proofers are suitable and the manufactures instructions should be followed. As a general guide, newly cast concrete should be allowed to set for at least 28 days before treatment can begin.

## PRODUCT CHARACTERISTICS

Colour & Form:	Brown paste.		
Characteristics:	2 component polyurethane-reaction adhesive suitable for outdoor use.		
Specific Gravity:	1400 g/litre.		
Viscosity:	Thixotropic.		
Solids:	100%.		
Application:	Suitable equipment for bead application or notched trowel for all over application.		
Open/Cure Time:	Ambient Temperature °C	Open Time:	Cure Time:
	10	2 - 4 hours	12 - 24 hours
	20	1 - 2 hours	6 - 8 hours
	30	30 minutes	2 hours
	Do not use if risk of ground frost before completion of setting time.		
Coverage:	Variable according to materials used. Typical for short pile tufted carpet 300 - 500 g/m <sup>2</sup> .		
Cure time:	Curing commences when the hardener is added. After the open time curing is accelerated but would not normally reach full cure for 48 hours, but again this is dependant on ambient temperature.		
Cleaning:	Hot water plus detergent will remove (wet) adhesive from hands and tools. Cured adhesive is solvent resistant and is removable only by mechanical means.		
Film Resistance:	Water-resistant.		
Packaging:	Adhesive 10 kg or 20kg plastic tub. Hardener 1.2 kg or 2.4 kg container.		
Storage:	Keep containers tightly sealed between 5 - 30°C.		
Shelf Life:	12 months for both Adhesive and Hardener.		
Warning:	When working with hardener, the warning and safety precautions on the containers should be observed. Envirostik Hardener is a 100% liquid isocyanate. Avoid contact with skin. Wear protective gloves.		

## HEALTH & SAFETY

Before embarking on any work ensure you are supplied with the relevant Safety Data Sheet and have read carefully the following information.

- 1) The hazard label on the container (complying with Chip 3 Regs 2002 & CDG/CPL Regs).
- 2) The Envirostik Material Safety Data Sheet for Sport-Fix Flexibond Adhesive.

This leaflet is for general guidance only and may contain inappropriate information under particular conditions of use. The company cannot accept any responsibility for loss or damage that may result from the use of this information, due to the possibility of variations of processing or working conditions and of workmanship outside our control. Users are advised to confirm the suitability of this product by their own tests.