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Ultra-Fix Adhesive

High Spec. Polyurethane Adhesive for Synthetic Sports Surfaces

INTRODUCTION

A new product from the Sport-Fix range of Adhesives. Ultra-Fix is a two component polyurethane based adhesive system, which cures to give a tough flexible film. Primarily designed for bonding artificial grass carpets to seam jointing tapes to produce a strong invisible joint along the carpet joints. This next generation, high quality product results in joint strengths up to 50% higher than standard two part adhesives. It also allows installation in adverse weather conditions and with the addition of 'Rapid Set' accelerator, can also be used in low winter temperatures, as low as 3 - 5 °C.

FEATURES

- Suitable for use in adverse weather conditions.
- Maintains spread structure even at higher application temperatures.
- Recommended for use in high contact sports such as Rugby.
- Good cure times possible at temperatures down to 3°C.
- Excellent spread rates achieved when using Envirostik Seam-Rite applicators.
- The peel strength joint specifications for all sports are easily exceeded.
- Available as 11.4 kg or 13.7 kg set sizes.

METHOD OF USE

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

MIXING PROCEDURE

Sport-Fix Ultra-Fix is mixed thoroughly with the Hardener Additive at a weight ratio, as supplied, of 10 to 1.4 by first adding the complete bottle of hardener component to the adhesive component in the plastic tub.

Complete and thorough mixing of the components should be carried out by using a mechanical stirrer, for example a powerful drill with a suitable multi-paddle type 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.

When using at low temperatures the addition of 'Rapid-Set' accelerator is recommended (one or two bottles per set) and this can be added and mixed at the same time as the Hardener Additive.

APPLICATION METHODS

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

Ultra-Fix Adhesive is suitable for use in adverse weather conditions and will still form strong bonds even if the materials become rain affected during installation.

SEAM BONDING THE EDGES OF SYNTHETIC GRASS CARPETS

The mixed Adhesive is preferably used in conjunction with a suitable application machine (our own range of Seam-Rite machines are recommended). The Adhesive is then spread on to a tape, from a notched application tray, which allows the adhesive to stand up in ridges, across the width of the seam jointing tape. Allow a 2 - 3 cm strip uncoated at each edge of the Tape. A minimum of 12 cm of each carpet edge should be bonded into the adhesive layer.

Ultra-Fix is suitable for bonding all synthetic grass carpets to the geo textile surface of seam joint tapes and as an example a mixed set of 11.4 kg will bond a seam length of between 18 - 25 metres. It is important that sufficient adhesive is applied to transfer onto the carpet back when this is pressed into position and should effectively fill the gaps between the rows of stitches. Therefore coverage will vary according to the carpet composition with the longer pile carpets requiring a higher adhesive spread rate.

The seam can be lightly rolled after making the joint and subsequently re-rolled when the adhesive is setting to a high viscosity mastic appearance (normally 1 - 2 hours).

Another method commonly used is to hold the seams in place by weighting the carpet with dry sand or planks until the adhesive has cured. The adhesive will normally have at least a one hour workable time at average seasonal temperatures of 15 - 25°C, but this time can be considerably extended or reduced at lower or higher working temperatures.



The Adhesive Specialist

PRODUCT CHARACTERISTICS

Colour & Form:	Green paste. Tough flexible film in cured state.		
Characteristics:	2 component polyurethane-reaction adhesive suitable for outdoor use.		
Specific Gravity:	1550 g/litre.		
Viscosity:	Thixotropic.		
Solids:	100%.		
Application:	Suitable application machine for applying to Seaming Tape.		
Open/Cure Time:	Ambient Temperature °C	Open Time:	Cure Time:
	5	2 hours	12 hours
	10	1 hours	8 hours
	20	45 minutes	4 hours
	30	20 minutes	2 hours
	Do not use if risk of ground frost before completion of setting time.		
Coverage:	2000 - 3000g/ m ² to Seam Tape surface. Variable as to carpet backing.		
Setting time:	Approximately 2 - 12 hours depending on ambient conditions.		
Cure time:	80% of strength after 48 hours.		
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. The use of suitable gloves and barrier creams are recommended.		
Film Resistance:	Water and temperature resistant.		
Packaging:	11.4 kg and 13.7 kg sets in plastic tubs and plastic bottles supplied as correct weight separate components.		
Storage:	Keep containers tightly sealed between 5 - 25°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 4 Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 and the European Regulation on Classification, Labelling and Packaging of Substances and Mixtures (CLP Regulation).
- 2) The EnviroStik Material Safety Data Sheets for Ultra-Fix Adhesive and hardener.

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.