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# Multi-Purpose Adhesive

## Two-Component Polyurethane Adhesive For Synthetic Sports Surfaces

### INTRODUCTION

EnviroStik Multi-Purpose Adhesive is a two-component polyurethane-based adhesive system primarily designed for bonding artificial grass carpets to our special seam-jointing tapes to produce a strong invisible joint along the carpet joins.

### FEATURES

- Suitable to bond all carpet and tape combinations.
- Solvent free non-flammable adhesive.
- Structured non-slumping consistency.
- Fast cure time.
- Versatile over 5 - 30°C.
- Bonds generally far stronger than the materials used.
- Tolerates use in damp weather conditions.

### METHOD OF USE

**Important:** Before embarking on any work involving EnviroStik Multi-Purpose Adhesive the Health and Safety Data Sheet should be carefully studied by those carrying out the work.

### MIXING PROCEDURE

EnviroStik Multi-Purpose Adhesive is mixed thoroughly with the Hardener Additive at a ratio of 10:1 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.

The mixed adhesive should never be applied on to wet substrates as this interferes with the curing system and will result in inferior bonds. However EnviroStik Multi-Purpose Adhesive is tolerant to use in damp weather conditions.

### SEAM-BONDING THE EDGES OF SYNTHETIC GRASS CARPETS

The mixed adhesive is poured from the tub directly down the centre of the tape, or into a suitable application machine. The adhesive is then spread by notched trowel (this allows the adhesive to stand up in ridges) across a width of 250mm, leaving a 25mm strip uncoated at each edge of the tape.

EnviroStik Multi-Purpose Adhesive is suitable for bonding all synthetic grass carpets to geo-textile tapes and a mixed set of 11.0kg will bond down a seam length of 15 to 25 metres. It is important that sufficient adhesive is applied to transfer on to the carpet back when this is pressed into position and should effectively fill the gaps between the stitches. Therefore coverage can be down to 15m per set on some types of very long pile carpet.

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 partially cure in 1 - 2 hours at average spring/autumn temperatures, but this time can be considerably extended at lower temperatures.

### PRODUCT CHARACTERISTICS

<b>Colour &amp; Form:</b>	Grass-green paste.		
<b>Characteristics:</b>	2 component polyurethane-reaction adhesive for outdoor use.		
<b>Specific Gravity:</b>	1480g/litre.		
<b>Viscosity:</b>	Thixotropic.		
<b>Solids:</b>	100%.		
<b>Application:</b>	Notched trowel or by suitable machine for applying to Seaming Tape.		
<b>Open/Cure Time:</b>	Ambient Temperature °C	Open Time	Cure Time
	5	4 hours	24 hours
	10	2 hours	12 hours
	20	1 hour	4 hours
	30	30 minutes	2 hours
Do not use if risk of ground frost before completion of setting time.			
<b>Application Temperature:</b>	5°C to 25°C.		
<b>Coverage:</b>	2000 - 3000g/m <sup>2</sup> for seam jointing.		
<b>Setting time:</b>	Approximately 1 - 24 hours depending on ambient temperature.		
<b>Cure time:</b>	Final strength after 4 days.		
<b>Cleaning:</b>	Hot water plus detergent will remove (wet) adhesive from hands and tools. Cured adhesive is solvent resistant and is removable only by mechanical means.		
<b>Film Resistance:</b>	Water and temperature resistant.		
<b>Packaging:</b>	13.2kg, 11kg and 5.5kg sets as stock items. Supplied as separate components or in a single combination pack.		
<b>Storage:</b>	Keep containers tightly sealed between 5 - 30°C.		
<b>Shelf Life:</b>	12 months for both Adhesive and Hardener.		
<b>Warning:</b>	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 EnviroStik Multi-Purpose 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.