



Aqua-Fix Adhesive

One Component Polyurethane Adhesive for Bonding Artificial Grass

INTRODUCTION

Aqua-Fix Adhesive is a single component moisture-curing adhesive, formulated for permanent bonding of artificial grass carpets to a variety of substrates. In particular, it is used for the secure seam jointing of carpets, using special geotextile based tapes. The main feature of this product is its tolerance to use in adverse weather conditions or when carpets become wet due to exposure to rain before bonding. This allows work to proceed when other adhesives may not produce acceptable bonds. Final bonds are fully resistant in the long term to all climatic conditions.

FEATURES

- Single component adhesive. Only requires short mixing time to break down the gel structure.
- High coverage rates are obtained due to slight expansion of the adhesive on curing.
- Good tolerance to use in adverse conditions of wetness and cooler temperatures.
- Adhesive coloured green to match synthetic grass.
- Rapid curing time for good initial bond formation.

METHOD OF USE

Aqua-Fix is a single component Polyurethane based adhesive which is supplied in a gel form. Therefore the adhesive requires some agitation to break down the structure before application.

Important: Before embarking on any work involving Aqua-Fix Adhesive, the Material Safety Data Sheet and warnings on the container should be read by those carrying out the work.

If in any doubt as to bonding performance, individual substrates should be pre tested prior to any large-scale installations.

AQUA-FIX ADHESIVE FOR SEAM JOINTING ARTIFICIAL GRASS

The adhesive is particularly effective for the joining of carpet seams in conjunction with special strong geotextile based tapes. In this instance the adhesive is applied evenly along the length of the tape, at a specified width, usually from special adhesive applicator machines. The edges of the carpet rolls are then positioned centrally along the length of the tape and light pressure is applied to ensure transfer of adhesive to the carpet backing. In wet conditions it is good practice to periodically press down the bonds to minimise any slight foaming that might occur.

It is important that the adhesive is applied evenly by notched trowel or special applicator, set to the correct spread rate which may vary according to the stitch pattern on the back of the carpet. Consolidation of the bonds is as described above. The versatility of the Aqua-Fix allows it to be used for carrying out work during periods of adverse weather, i.e. in cooler, damper conditions. Also if the carpet has been allowed to become wet, say after overnight rain onto exposed carpet or lines are installed after the main installation.

ARTIFICIAL GRASS BONDING DIRECT TO A SUB BASE

Aqua-Fix one component adhesive allows application directly from the container after slight mixing. It will bond to a wide variety of materials such as concrete, asphalt, wood, rubber, textiles and most plastics.

Ensure the sub floor surface is smooth, as dry as possible, clean, and free from dust, loose particles or contaminants such as oil, which may affect adhesion. Concrete should be suitably aged or treated with a cement surface primer. Some dampness can be tolerated but any surface water should be removed. Aqua-Fix Adhesive should be applied to the substrate and spread evenly with a notched trowel at a coverage rate sufficient to leave consistent ridges of adhesive which will allow transfer of the adhesive to the carpet backing when the artificial grass is then placed in position and lightly rolled.

Caution: The adhesive is subject to slight foaming during the curing process, particularly in damp conditions and care must be taken not to apply excess adhesive which may cause an uneven surface of the artificial grass.

Therefore it may be necessary either to lightly roll the surface periodically over the next hour to ensure a flat even surface is produced. Open times and curing times are dependent on both temperature and humidity and will be shortened in warm, moist conditions.

PRODUCT CHARACTERISTICS

Colour & Form:	Grass-green thixotropic gel structure.		
Characteristics:	Moisture curing, single-component, solvent-free polyurethane adhesive. Suitable for outdoor use in adverse weather conditions		
Specific Gravity:	1.16 g/cc.		
Viscosity:	Thixotropic paste		
Solids:	100%.		
Application:	Aqua-Fix is poured from the tin, either directly on to the substrate or into a special Adhesive applicator machine. The adhesive is then spread evenly, either by notched trowel, or by use of the correct gauge notched tray setting of the applicator. Avoid contact with skin by wearing gloves (see Safety Data Sheet).		
Open/Cure Time:	Ambient Temperature °C	Open Time	Cure Time
	5	45 minutes	8 to 12 hours
	10	30 minutes	4 to 8 hours
	20	20 minutes	2 to 4 hours
	30	10 to 15 minutes	1 to 2 hours
	The above figures are a guideline for work in average humidity. Conditions of higher humidity and presence of water can lessen these times.		
Application Temperature:	5°C to 25°C		
Storage:	6 months in unopened containers.		
Packaging:	6kg or 12kg metal tins or lower weights in sealed foil bags.		
Coverage:	1000 to 1500 ccs/m ² , depending on substrates and stitch pattern of carpet backing. Typically if using for seaming carpet lengths, this equates to between 30 to 40 linear metres per 12kg can when applied at a width of 25cm along the joining tape.		

HEALTH & SAFETY

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

- 1) The hazard label on the container (complying with Regulation EC No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CCP Regulation)
- 2) The Envirostik Material Safety Data Sheet for Aqua-Fix 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.

