

# EVO-SPORT 9604 ADHESIVE

## POLYURETHANE ADHESIVE

### PRODUCT DESCRIPTION & USE

Evo-Sport 9604 is a two component polyurethane adhesive system primarily designed for seam bonding of medium and low profile synthetic grass surfaces in conjunction with our specialized jointing tapes. It may also be used for bonding grasses direct to a sub base constructed of rubber, concrete or asphalt.

### FEATURES

- Solvent free non-flammable adhesive system
- Easy to apply
- Coloured green for low visibility on artificial grass
- Fast cure time
- Versatile over 5-30°C
- Designed to provide minimum seam visibility

### TECHNICAL DATA

<b>Adhesive Type</b>	Solvent-free, 2-part polyurethane, suitable for indoor and outdoor use.	
<b>Colour &amp; Form</b>	High viscosity green liquid.	
<b>Specific Gravity</b>	1.5 kg/litre.	
<b>Film Resistance</b>	Water resistant.	
<b>Recommended Notched Trowel &amp; Coverage</b>	3 mm notch depth x 3 mm notch width x 3 mm tooth width trowel or by specially designed machine for applying to seaming tape. Approximately 20 to 25 linear metres when used on 300mm wide tape. Approximately 2 kg of mixed adhesive per square metre for seam jointing. Approximately 1-1.5 kg per square metre for bead application.	
<b>Mixing Ratio</b>	Mix 10 kg Evo-Sport 9604 Part A with 1 kg Evo-Sport 9604 Part B.	
<b>Working Temperature</b>	Preferably between 5°C and 25°C. Material and substrate temperature not below 5°C. Do not use if risk of ground frost before completion of setting time.	
<b>Open Time</b>	Ambient Temperature °C	Maximum Open Time
	5	24 Hours
	10	12 Hours
	15	8 Hours
	20	4 Hours
	25	90 Minutes
	30	45 Minutes
<b>Setting time</b>	Approximately 1 - 24 hours depending on ambient temperature.	
<b>Cure time</b>	Final strength after 4 days.	
<b>Cleaning</b>	Evo-Stik Cleaner 5 may be used to remove uncured adhesive from carpet and tools. Cured adhesive is solvent resistant and is removable only by mechanical means.	
<b>Storage &amp; Shelf Life</b>	Can be stored for 12 months when kept in the original, unopened container and protected from frost. Store in a cool and dry place, not below 5°C.	
<b>Packaging</b>	11kg set: Part A - 10 kg plastic bucket (44 units per pallet), Part B - 1kg metal tin. 5½kg set: Part A - 5 kg plastic bucket (44 units per pallet), Part B - 500g metal tin.	

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## HANDLING PRECAUTIONS

Evo-Sport 9604 Part B is a 100% liquid isocyanate. Prevent skin and eye contact. Wear suitable protective equipment: gloves and safety glasses. Do not breathe vapours. May cause an allergic reaction resulting in breathing problems or skin disorders. Prevent spillages.

## MATERIAL SAFETY DATA

Before starting work using Evo-Sport 9604 the separate Material Safety Data Sheet must be studied carefully by those carrying out the work.

## MIXING PROCEDURE

Evo-Sport 9604 Part A should be mixed with Evo-Sport 9604 Part B in a ratio of 10:1 by weight. Mixing should be carried out thoroughly using a mechanical stirrer, for example a high capacity electric drill with a suitable paddle. Mix thoroughly for approximately 2 minutes or until an even colour is achieved.

Note: Poorly mixed adhesive will not cure correctly and may result in seam failure.

## APPLICATION METHOD

**Substrates should be evaluated for bonding performance prior to any large scale application.**

Evo-Sport 7174 should never be applied onto a wet substrate as this interferes with the curing system and will result in inferior bonds.

### Seam Bonding the Edges of Sand Filled Synthetic Grass

The mixed adhesive should be poured in a line down the centre of the 300mm wide seaming tape (appropriate Evo-Sport EST tape is recommended) and spread by notched trowel, alternatively a suitable applicator may be used. The adhesive should be spread evenly across a minimum of 240mm of the joint width. It is important that sufficient adhesive is applied to ensure adequate transfer onto the carpet back when this is pressed into position. When mixed the standard pack of Evo-Sport 9604 provides 11kg of adhesive, this should be sufficient to bond approximately 20-25 linear metres of seaming tape.

After carefully laying the grass into the adhesive and drawing the edges together it is important to roll or tread the seam to ensure maximum transfer of adhesive on to the back of the grass. After 1-2 hours this process should be repeated. If it is more convenient the seams can be held down after initial rolling by weighting with sand until the adhesive has cured. This method is recommended when seams are made towards the end of the day or when other stoppages occur.

The adhesive will normally partially cure in 1-2 hours at average spring / summer temperatures, but this time can be considerably extended at lower temperatures or in a very dry atmosphere. Final strength is achieved after 4 days.

### Overall bonding of Synthetic Grass

A portable compressor with a pressure pot or pumping system is recommended. A flexible hose and T-shaped bar with holes at 50mm intervals would be suitable for application of the adhesive to the substrate.

The adhesive should be applied in strips to provide free drainage through the surface material and base layer.

The synthetic grass carpet should be laid into the adhesive immediately after application and lightly rolled to ensure good transfer on to the carpet backing. Any creases should be pulled out at this stage as once the adhesive has set they cannot be removed. The surface should be rolled again after 1-2 hours to further consolidate the bond and eliminate any areas where lifting may have occurred.

### Bonding to Concrete

Evo-Sport 9604 adhesive should not in any circumstances be used on freshly laid concrete, it is recommended that, ideally 6 months should be allowed between the laying of the concrete and bonding to it using an adhesive.

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