



ATLAS ADHESIVES

N-TURF-19 ARTIFICIAL GRASS ADHESIVES

Technical Data Sheet

DESCRIPTION

N-Turf-19[®] is a two-component, solvent-free polyurethane adhesive specifically developed for installing the latest generation of synthetic grass sports surfaces, particularly for sports that require a playing surface with high elastic-mechanical performance properties.

TECHNICAL SPECIFICATIONS

S. No	Properties	Result
1.)	Component	Two Component Thixotropic Material
2.)	Coverage	2000 - 3000g/m ²
3.)	Colour	Green
4.)	Viscosity	8.000-17.000 mPas
5.)	Density (25°C)	(A) 1.60 ± 0.05 g/cm ³ (B) 1.20 ± 0.01 g/cm ³
6.)	Solids Content	(A + B) 100 %
7.)	Consistency	(A) Thick paste (B) Liquid
8.)	Mixing Ratio	(A + B) 9:1
9.)	Pot Life(25°C)	Approx. 30 – 60 Minutes
10.)	Application Temperature	0°C to + 30 °C
11.)	Open Time	Approx. 60 Minutes
12.)	Ready for Service	Approx. 5 Days
13.)	Tensile Strength	> after 4 days at +23°C and 14 days soaked at + 70°C
14.)	Peel Resistance	>100 N After 4 days at +23°C and 14 days soaked at + 70°C

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KEY BENEFITS

- High –strength adhesives
- No smell
- Suitable for use in adverse weather conditions
- Solvent free

APPLICATION

- Suitable for bonding artificial grass on to most substrates (except PE, PP, PTFE).
- Suitable for professional sports fields
- Bonding artificial grass sports ground applications
- Bonding rubber sheets to different surfaces such as concrete, hardboard, chipboard
- Check trowel notches for wear and tear and replace worn down trowels. Ensure trowels are clean and the trowel notches are not clogged with dried adhesive.
- It can be used indoors and outdoors for jointing the rolls of synthetic turfs with shore elastic and highly strength. **N-Turf-19** is heat & weather resistant polyurethane material and it provides permanent adhesion.
- The resin component should be thoroughly stirred to incorporate any slight separation, whilst continuing stirring the contents of the hardener container should be added. Continue stirring until a homogeneous mix is obtained. The surface must be dry and clean. Applied with trowel on the seaming/joining tape .

FEATURES

- Smooth trowel ability & good hold up
- High bond strength once fully cured
- Durable all weather bond
- Suitable to bond all carpet and tape combinations.
- Fast cure time.
- Bonds generally far stronger than the materials used.



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PROPERTIES

- Two component
- Green coloured adhesive
- Excellent bonding to applied surfaces
- Suitable for use in adverse weather conditions
- Excellent adhesion on nearly all surfaces even if slightly moist.
- Permanently elastic after curing
- Easy to apply

INSTRUCTION

(A)Mixing Procedure

Mix the product correctly, the two components of N-Turf-19 are supplied in individual, pre-dosed containers (A+B) (9:1 parts by weight). In fact, even if the pre-set dosages of components A and B are only slightly modified the adhesive may not cure correctly and the final performance characteristics of the adhesive may be affected. Pour the entire contents of N-Turf-19 component B into the container of component A and mix the two components together with a mixer at low speed, taking care to prevent air from being entrained into the product, until a smooth, even-coloured mix is obtained.

(A)APPLICATION METHOD

Should not be applied onto a wet substrate as this interferes with curing mechanism and bonding. The application surface must be dust, dirt and oil free. 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. It is recommended that use all mixed material in working time of adhesive. Avoid to contact with water in 8-10 hours after application.

Before use, individual substrates should be evaluated for bonding performance prior to any large-scale application. mixed adhesive should never be applied onto wet substrates as this interferes with the curing system and will result in inferior bonds. However Multi Purpose Adhesive is tolerant to use in damp weather conditions.



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CONSUMPTION

When bonding synthetic grass, the consumption rate of N-Turf-19 depends on the type of seaming tape

used:

- 0.4-0.5 kg per metre for seaming tape 40cm wide (5 kg of product each 10 linear metres)
- 0.3-0.4 kg per metre for seaming tape 30 cm wide (4 kg of product each 10 linear metres)

used to bond sports surfaces that incorporate high-performance, prefabricated mat (such as the consumption rate per square metre can vary considerably, depending on the type of Substrate (concrete or bitumen conglomerate), from 1 up to 2 kg per square metre.

PACKAGING

N-Turf-19[®] is supplied in 15 Kg Bucket (Part A :13.5 Kgs & Part B : 1.5 Kgs)



STORAGE

Keep containers tightly sealed between 5 - 30°C . Shelf life 12 months





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Recommendations

- When using the product at high temperatures (more than +35°C) its open time may be significantly reduced.
- To get the best results from the product, store N-Turf-19 component B at a temperature of more than +5°C.
- Only mix whole contents together: we advise against mixing partial quantities because the two components need to be weighed out very accurately.
- Do not apply the product at temperatures lower than the recommended value (0°C).

CLEANING

Clean equipment with warm water and remove traces of adhesive that haven't set while still wet. Once hardened the adhesive may only be removed mechanically.



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