

Technical Data Sheet

AS-4032 Artificial Grass Adhesive



Physical Properties

Base:
One-component MS (Modified silane) polymer

Appearance:
Soft paste

Colour:
Green

Working time:
~ 30 minutes
(at 25 °C & 50% R.H.)

Tack-free time
20 – 40 minutes

Application temperature:
10 °C to 35 °C

Service temperature:
-20 °C to 90 °C

Storage:
Store in a dry and cool place
with temperature below 30 °C.

Shelf life:
12 months

Packaging:

Content	Quantity
24 kg pail (~15.3 L)	1 pail (3 x 8 kg packs)
600 mL / sausage sachet	20 sausages / carton

Description

ALSEAL Artificial Grass Adhesive is a one-component MS Polymer adhesive formulated for bonding artificial grass floor coverings in athletic and landscape applications. It meets SCAQMD VOC limit. It does not contain any solvents (will not damage bonded substrates), water (no glue line shrinkage), or isocyanates. It is specially designed to have weather-resistant bonding for both indoor and outdoor applications.

Features

- ◆ Single-component – *no mixing required*
- ◆ Permanently elastic – *allows bonded artificial grass to expand/contract*
- ◆ Weatherproof – *indoor and outdoor applications*
- ◆ Green in colour
- ◆ No solvent – *low odor and low VOC*
- ◆ No isocyanate
- ◆ Notched trowel ridges hold firm
- ◆ Good workability – *even at low temperature*
- ◆ Non-flammable, non-hazardous
- ◆ Pail - 3 Packs per pail – *less wastage*

Applications

Installing various types of artificial grass or carpet (polypropylene, rubber, polyurethane; tufted or woven) floor coverings.

Technical Data

Curing system	: Moisture curing
Density	: 1.60 – 1.64 g/mL
Tensile strength (ASTM D412)	: ≥ 1.0 N/mm ²
Lap shear strength (ASTM D1002)	: ≥ 0.5 N/mm ² (wood to wood)
Elongation (ASTM D412)	: $\geq 100\%$
Shore A hardness (ASTM C661)	: 35 – 45
VOC content (USEPA Method 24)	: 18.59 g/L

Approvals/ Specifications

AS-4032 meets the requirements of the following specifications:

- ◆ Good Environmental Choice Australia (GEC) certified
- ◆ Low VOC - USEPA Method 24 under SCAQMD Rule 1168

Preparation

- ◆ The artificial grass sheets must be unrolled several hours before installation works so as to reduce internal tensions caused by packaging.
- ◆ Subfloor must be solid and structurally sound, level, smooth, clean, permanently dry, no indentations and anti-adherents, as well as resistant to pressure.
- ◆ Subfloor must be free of dust, dirt, grease, wax, loose paint, oil, sealers of ANY type, curing compounds, bond breakers, asphaltic residue, liquid adhesive remover, strippers, chemicals, or any other foreign substances that can potentially affect bonding. Cleaning the subfloor with an industrial vacuum cleaner is recommended.
- ◆ If installation site is a sport field, the base must be load-bearing and suitable as sports grounds without any defects. The sport field base must be equipped with proper drainage and must be solid and firm according to the relevant requirements.
- ◆ The subfloor substrate must meet the artificial grass manufacturer's standards and regulations for the type and intended use.
- ◆ Recommended air temperature during installation – between 10 °C – 35 °C, Relative Humidity – between 30% and 75%, subject to the requirements specified by floor manufacturer.
- ◆ The subfloor must be solid and structurally sound, flat, smooth, clean, and dry.



AS-4032 Artificial Grass Adhesive

Usage Instructions

Packs in Pail:

1. Remove the cover and cut open the foil liner. Once open, the entire contents should be used within a short period of time.
2. Spread the adhesive with the proper notched trowel, apply uniformly on the subfloor. Avoid adhesive pools and excessive adhesive thickness by passing the trowel evenly through the adhesive at a 45 degree angle.
3. If the artificial grass is installed with jointing strips, spread the adhesive evenly along the entire surface of the jointing strips.
4. Only apply enough adhesive to work within working time (30 minutes). Lay most floor coverings into adhesive immediately or within working time, correctly position it and press down firmly to ensure good overall contact.
5. Roll floor coverings using the 25-35kg roller shortly after installation in both lengthwise and widthwise directions. During all bonding, it must be controlled that full contact between floor coverings and subfloor is achieved. Roll again in both directions 60 minutes after being laid.
6. Placing weights on the grass sheets is recommended in order to avoid ineffective bonding caused by floor irregularities.
7. Restrict foot traffic for a minimum of 24 hours.

Sausage sachet:

1. Place the sausage sachet in a suitable caulking gun and snip off the end. Cut the tip off the nozzle to suit the application.
2. Extrude the adhesive to the appropriate areas where the floor coverings will be laid over.

Coverage

Backing of Grass Sheets	Trowel Size	Coverage
Smooth	Square-notched trowel 4 mm x 4 mm x 4 mm	~1.5 m ²
Coarse	Square-notched trowel 6 mm x 6 mm x 6 mm	~1.0 m ²

- ♦ If jointing strip of 40 cm width is used for installation, recommended coverage is 0.30 – 0.35 kg per meter.

Clean Up

- ♦ Can be cleaned up with acetone or mineral spirits when wet.
- ♦ Cured materials can only be removed mechanically.

Limitation

- ♦ Do not apply over any acrylic primer or sealer.
- ♦ Do not thin down the adhesive with solvent.
- ♦ Resistant to water, dilute acids, and diluted caustic solutions, temporarily resistant to fuel, animal fats and oils, not resistant to organic acids, concentrated caustic solutions.

Caution

Keep out of reach of children. Contains aminosilane. May produce an allergic reaction. Safety data sheet available on request. For further health and safety information, consult the latest safety data sheet.

Disclaimer

Every endeavour has been made to ensure that the information given herein is true and reliable but it is given only for the guidance of our customers. The company cannot accept any responsibility for the loss or damage that may result from the use of the information, due to the possibility of variations of processing or working conditions and of workmanship outside our control. Users are advised to confirm suitability of this product by their own tests.