

Product Information Bulletin

March
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## **431 TWO PART SOLVENT FREE FLEXIBLE POLYURETHANE ADHESIVE**

### **DESCRIPTION:**

431 two part polyurethane adhesive is a solvent-free non-flammable flexible adhesive. This adhesive was designed to bond most types of synthetic grass directly to most common external concrete sub-floors. This adhesive was also designed to bond most types of synthetic grass to approved joining tapes.

### **CHARACTERISTICS AND ADVANTAGES**

#### **Part A (Resin)**

#### **Part B (Hardener)**

- |                    |   |                  |
|--------------------|---|------------------|
| • Viscosity        | Paste   | Liquid           |
| • Colour           | Green   | Dark Brown       |
| • Spec. Gravity    | 1.21kg/1  | 1.00kg/1         |
| • Mixing Ratio     | 3 parts by weight   | 1 part by weight |
| • Pot life at 25°C | Approx.45-60min, high temperatures accelerate, while low temperatures will retard curing.                                 |                  |
| • Coverage         | 1m <sup>2</sup> /Kg depending on condition of sub-floor & towel size used.  |                  |
| • Curing           | Minimum 8 hours - dependant upon ambient temperature and application.<br>High traffic areas minimum 48 hours, preferable. |                  |

### **SURFACES PREPARATION**

For the bonding of synthetic grass to tape, please ensure that the tape is approved by Holdfast prior to the application of adhesive. Ensure the approved tape is placed to the sub-floor the correct way up and is clean and free from any contaminants that may inhibit bonding of grass with this adhesive.

For direct bonding, all subfloor surfaces shall be dry, smooth, sound and clean, free of wax, grease, oil, old adhesive, paint, curing compounds, laitance, bond breakers and all other contaminants that inhibit adequate adhesion to the sub-floor. The sub-floor must also be free from hydrostatic pressure or capillary action. The adhesive should not be used in excessive cold or hot conditions i.e. below 8°C or above 28°C.

Uneven or damaged floors should be repaired with a cementitious levelling compound. All subfloors should be tested for moisture content prior to surface priming or application of this adhesive. The moisture content of the sub-floor should not exceed 5.5% and or the relative humidity should not exceed 70%. Do not use this adhesive if the moisture content /relative humidity levels are above the acceptable standards. All subfloors should in accordance with current Australian standard installation practices.

### **APPLICATION**

- 1 Empty the complete contents of part B hardener into the part A resin pail.
- 2 Mix part A and part B together thoroughly with an electric drill with a mixing paddle attachment. Ensure the product is mixed until a uniform colour is obtained i.e. no streaks. The maximum mixing time should be no greater than 3-4 minutes. Please note this adhesive has a pot life of approx 45-60 minutes once mixed, the adhesive must be used within this time period. If the product is not used it will set in the mixing pail to a solid matter.
- 3 Apply the adhesive with the correct notched trowel V3 and V5 types dependant on the grass being installed.

- 4 Place the synthetic grass into the wet adhesive; ensure the adhesive does not set prior to placing the grass into the adhesive.
- 5 Roll the synthetic grass with the specified roller prior to the adhesive drying, this allows for adhesive transference between both substrates.
- 6 Allow the adhesive to set for 24 hours prior to receiving traffic.

#### **PRECAUTIONS**

- \* Do not use adhesive if the temperature of the sub-floor is below 10°C or above 28°C.
- \* This product will not stand up to Hydrostatic pressure or capillary action.
- \* Mixing procedure must be strictly followed.
- \* Ensure gloves are worn when applying the polyurethane adhesive.
- \* Ensure your trowel is notched to manufacturers recommendations at all times.
- \* If in doubt regarding the suitability of this adhesive contact the manufacturer.
- \* Always follow manufacturer's instructions.

#### **STORAGE**

May be stored for twelve months, in unopened sealed containers under cover at 20°C Do not allow to freeze. The adhesive is unaffected by freezing when dry.

#### **VENTILATION**

Always make sure that there is adequate ventilation when using this adhesive.

**CONDITIONS OF SALE:** contain a limited warranty against manufacturing defects.

#### **NOTICE TO THE PURCHASER**

All statements and technical information contained herein are based on tests we believe to be reliable but the accuracy thereof is not guaranteed. Users assume all risk and liability resulting from the use of this product and must confirm the suitability thereof by their own tests.

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