



**Product description**

Low odour, water clean-up, Acrylic Construction Adhesive. Safe-T-Bond is formulated with strong initial suction / grab, which makes it ideal for installing wall panelling, flooring, skirting boards and architraves. It has no fumes and can be cleaned up with water. It comes in an easy to use, resealable sachet so no caulking gun is necessary.

**Recommended uses**

- Bonding flooring to timber joists
- Bonding flooring to concrete joists
- Bonding flooring to metal joists
- Bonding wall panelling to plasterboard
- Bonding plasterboard to timber and steel studs
- Bonding fibre cement sheet to timber and steel studs
- Bonding skirting boards and architraves
- Bonding polystyrene foam

**Substrates**

- Particleboard / Chipboard
- Medium Density Fibreboard (MDF)
- Fibre Cement Sheet
- Softwoods
- Hardwoods with dry density <1000kg/m<sup>3</sup>
- Plywood
- Concrete
- Expanded Polystyrene Foam
- Galvanised steel

**Features and benefits**

- Low odour - no solvent fumes
- Easy to use
  - Easy clean up - use water
  - Fast initial grab - minimises slippage on vertical surfaces
  - Easy to dispense at low temperatures
  - Bridges gaps up to 9 mm - effective on uneven surfaces
  - Long repositioning time - up to 60 minutes
  - Easy to use, re-sealable sachet – no caulking gun
- Strong
  - High bond strength - exceeds AS2329 - 1999, Mastic Adhesives for Fixing Wallboards.
  - Strong adhesion to metal
- Will not attack polystyrene foam

**Precautions**

- Do not use to bond two non-porous surfaces eg. Metal to metal – will prevent adhesive drying
- Do not use on powder coated or other colour coated steel
- Do not use to bond flooring to existing flooring
- Do not use to bond flooring to concrete slabs
- Do not use in applications subject to contact with water
- Do not apply to wet surfaces

- Air, substrate and Safe-T-Bond temperature must be > 5°C during application and cure.
- Do not use with hardwood with dry density = 1000 Kg / m<sup>3</sup> and above
- Use only with properly seasoned timber with moisture content between 10 and 12%.
- High humidity and / or poor ventilation will slow drying

**Typical Properties**

Property	Typical Value
Open time	20 minutes at 25°C
Cure time	24 hours at 25°C
Repositioning time	60 minutes at 25°C
Service temperature	0°C to 80°C
Application temperature	5°C to 35°C
Flammability	Not flammable
Sag Resistance (AS2329-1999, Appendix A)	< 6mm
Transfer (AS 2329 - 1999, Appendix B)	> 75% after 15 minutes open time
Aging (AS2329-1999, Appendix C)	No chipping or cracking after 500 hours at 70°C.
Initial Bond Strength in Shear (AS2329-1999, Appendix D)	> 200 kPa
Adhesion Strength in Tensile Shear (AS2329-1999, Appendix E)	> 1 MPa
Bond Strength in Peel (AS2329 - 1999, Appendix F)	> 40N/25mm

**Surface preparation**

Read "Precautions" section of this data sheet prior to use.

Surfaces must be clean, sound and free of dust, oil, grease, form release agents, loose paint, adhesives or any agent, substance, material or contaminants that may interfere with the bond or may later affect Safe-T-Bond.

Will adhere to damp (not wet) surfaces (longer drying time may result). Ensure that air, substrate temperature and adhesive temperatures are above 5°C.

Safe-T-Bond cures by water evaporation. Avoid situations that will prevent water escaping from the adhesive. Eg. Do not bond metal-to-metal or metal to a painted surface. If bonding a non-porous surface, ensure the other surface is porous ie. can absorb moisture from the adhesive.

**Application**

Cut sachet tip to desired diameter.

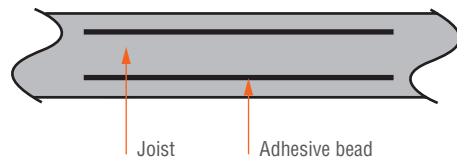


Dispense adhesive by squeezing sachet. Apply adhesive as a bead onto studs or joists. Applying adhesive as a blob will result in longer drying times.

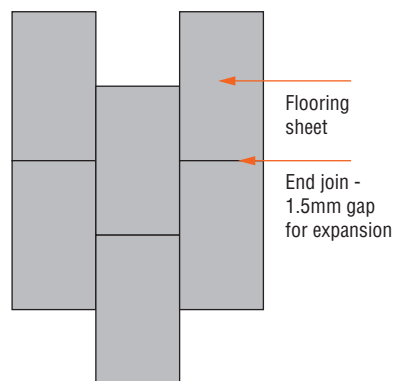
Apply Safe-T-Bond to one surface and fit surfaces together within 20 minutes. In heavy-duty applications, use with permanent mechanical fasteners. Temporarily brace and support wall panels or light objects and remove when adhesive has set (approximately 24 hours).

**Flooring**

Apply 5 mm diameter bead of adhesive to top of joist in a zigzag pattern. On joists where flooring sheets will join, apply two parallel beads of adhesive as shown below.



Fit sheet to joists within 20 minutes of application. Flooring manufacturer's instructions must be followed. If instructions are not supplied, stagger sheets so that end-joints do not meet (as shown below), and leave 1.5mm gaps between them to allow for expansion.



Nail or screw sheets to joists at 150mm centres around the perimeter and 300mm centres through the middle. Use a putty knife to remove any adhesive squeezed out of the joints between the sheets.

**Walls**

Apply 5 mm diameter bead of adhesive to studs in a zigzag pattern. Where wall panels meet and join at a stud, apply two parallel beads of adhesive. Fit panel within 20 minutes of application to the batten or stud. Brace and support panels if required until the adhesive has set. To install

wallboards over existing plasterboard or fibre cement, apply parallel beads of Safe-T-Bond about 100 mm apart. Working from the bottom up, tilt board until it is in contact with the existing wall and press to ensure adhesive is in contact with both surfaces.

Safe-T-Bond will allow repositioning of wallboards up to 60 minutes from application.

**Polystyrene Foam**

Safe-T-Bond is water based and will not dissolve polystyrene foam. For polystyrene foam panels apply parallel beads about 100 mm apart.

**Cure**

- Both Surfaces Porous: Bond slip resistant after 20 minutes @ 25°C
- One surface non-porous: Bond slip resistant after 8 hours @ 25°C
- Damp porous surface: Bond slip resistant after 8 hours @ 25°C
- Full cure: Typically 24 hours depending on temperature, porosity of substrates, humidity and ventilation.

**Service Temperature**

Safe-T-Bond construction adhesive will maintain a bond in situations where the temperature is between -5°C and 90°C.

**Painting**

Safe-T-Bond may be painted 30 minutes after application with water-based paints. Allow 24 hours for oil-based paints.

**Coverage**

1 L will yield 50 lineal metres x 5mm diameter bead of adhesive

**Storage and shelf life**

Storage temperature: 5°C to 35°C, out of direct sunlight  
Shelf Life: 2 years unopened.

**Clean Up**

Uncured: Water  
Cured: Scrape Pack Sizes 1L Sachet

**Pack Sizes and Order Numbers**

Size	Order number
1L Sachet	STBDL1

**Health and Safety**

Safe-T-Bond is not classified as hazardous for transport, storage or workplace use. MSDS available from [www.ramset.co.nz](http://www.ramset.co.nz) or call 0800 726 738.