Rapidstick™ RS-50 Liquid-Fix Construction Adhesive

PART NUMBER	COLOUR	AVAILABLE SIZE*
8-RS50BG-300	Beige	300ml Cartridge

**Available colours and/or sizes may change without notice.*

DESCRIPTION

Rapidstick™ RS-50 Liquid-Fix Construction Adhesive is a versatile, high quality 'strong-as-nails' adhesive, suitable for any high-stress construction or typical DIY project. It boasts exceptional bond strength, durability, and impact resistance, and is widely suitable for all indoor and outdoor applications using multiple substrates such as wood, concrete, bricks, and metal.

A popular choice amongst professionals and homeowners alike, RS-50 adheres to both porous and non-porous materials and has a low VOC content with no toxicity for environmental compatibility. Made with an odourless, non-flammable polyurethane base, it also contains no hazardous ingredients and is completely safe for handling. Curing occurs quickly, allowing for fast and efficient long term stability of bonded materials without the use of nails[1].

Water and weather resistant, Liquid-Fix also resists mould and mildew and remains perfectly in place without discolouration, sagging, or weakening, and can be polished and painted after cure for a reliably clean and seamless finish.

Commonly used for bonding and securing wall and door panels, glass splashbacks, skirting boards, floorboards, tiles, aluminium banding, and various insulation materials.

Recommended bonding surfaces include (but are not limited to):

- All metals, including stainless steel and anodised aluminium
- Porcelain, ceramics, marble, and stoneware
- Concrete, masonry and bricks
- Glass and crystal
- Plastics[2] and rubbers
- Building materials such as MDF, plasterboard, particleboard, wet and dry timber, and finished wood
- Furniture fabrics such as leather and polyester

[1]Not suitable as the sole adherent in structural bonding
[2]Pre-test plastics to determine compatibility

LIMITATIONS

Not suitable for permanent water immersion
Not for use on mirrors or metals heated by direct sunlight, or in applications where Liquid-Fix is directly exposed to sunlight
For safety reasons, not to be used as the sole adherent in structural bonding

APPLICATION

HEAVY DUTY BONDING

Note: Do not subject bonded materials to high stress or heavy loads for up to 48 hours, as Liquid-Fix continues to strengthen over 2 to 3 days.

1. Ensure the surfaces to be bonded are clean and free from oils, dust, and debris. Ensure pooled water is completely wiped away.
2. Cut the cartridge tip (approx. 5mm) and fit the required nozzle. Apply a continuous bead of adhesive to one surface, ensuring the bead is evenly distributed.
3. Position pieces and press firmly together. Secure with clamps or similar to apply even pressure while curing. Pieces may be repositioned within 20 – 30 minutes (open time) after application.
4. Wipe away any excess with a damp lint-free cloth before it dries. Do not remove clamps for a minimum of 24 hours.

LIGHT DUTY BONDING

Note: This method should only be used when bonded parts are not expected to be under high stress or heavy loads.

1. Ensure the surfaces to be bonded are clean and free from oils, dust, and debris. Ensure pooled water is completely wiped away.
2. Cut the cartridge tip (approx. 5mm) and fit the required nozzle. Apply a continuous bead of adhesive to one surface, ensuring the bead is evenly distributed.
3. Position both surfaces together and immediately pull apart. Allow surfaces to dry for up to 5 minutes before firmly joining.

CLEAN UP & STORAGE

Uncured product can be removed with a soft, lint-free cloth within minutes of application, or with mineral turpentine if product is within open time (20 – 30 mins after application).

Cured product can be removed by scraping or sanding.

TECHNICAL DATA

Appearance	Beige, thixotropic paste
Base	Polyurethane
Curing method	Solvent evaporation
Viscosity	180,000 – 220,000 cps
Flammability	Non-Flammable
Open Time	20 – 30 minutes (temperature dependent)
Cure Time	24 – 48 hours, with highest strength achievable after 7 days
Initial Bond Strength @ 24hrs*	> 200Kpa
Shear Strength*	435 psi
Tensile Strength*	597 psi
Sag Resistance*	≤ 5.8mm
Thermal Stability*	> 7 days
Shore D hardness	55 – 60
Shelf Life (AS 2329-1999)	18 months when stored in a cool, dry environment (approx. 21°C)

*Meets Australian Standard AS 2329-1999

FIRST AID & SAFETY PRECAUTIONS

Always refer to Safety Data Sheet/s before use. Use proper Personal Protection Equipment. Do not get in eyes, on skin, or on clothing. Use with adequate ventilation. Avoid breathing fumes. Keep away from heat, sparks, open flames, and hot surfaces. This product may produce adverse health conditions, ranging from minor skin irritation to serious systemic effects. It should not be used, stored, or transported until the handling precautions and recommendations as stated in the Safety Data Sheet/s for this product have been fully understood by all persons who will work with the material.

STORAGE & TRANSPORT

Refer to Safety Data Sheet/s for recommendations. As a general precaution, keep containers tightly closed, protect from sunlight, and do not expose to temperatures exceeding 50°C. Containers should be secured and stored upright during transit.

DISCLAIMER

Every effort has been made to ensure the information provided in this document is accurate at the date of publication. Chemtools® Pty Ltd expressly recommends that the user make his/her own assessment to determine the suitability of the product for its intended purpose prior to application. Chemtools® Pty Ltd shall not be responsible for loss, damage, or injury, resulting from the reliance upon, or failure to adhere to, any recommendations or information contained herein; nor from abnormal use of the material; nor from any hazard inherent in the nature of the material.