Rapidstick™ 8-150 5 Minute Epoxy

PART NUMBER	COLOUR	AVAILABLE SIZE*
8-150-25	Transparent	25ml Dual Syringe

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

DESCRIPTION

Rapidstick™ 5 Minute Epoxy is a high strength, versatile, non-shrinking, two-part dual syringe adhesive, which delivers equal parts of both the epoxy resin and the hardener with every use. When mixed, the reaction produces a tough, rigid bond in 5 minutes for quick project completion.

5 Minute Epoxy is ideal for metal and hard material bonding, as well as mold infusion. It can also be used for electronic parts insulation, moisture-proof potting, and privacy masking, and is compatible for use on a wide range of other materials as a gap filler or for surface repairs and laminating. Combining 5 Minute Epoxy with fibreglass cloth creates a durable patch, and tinting with earth pigments, cement, or sand allows colour matching. Once dry, it can be rubbed back and drilled.

5 Minute Epoxy is resistant to water and most common solvents, drying clear and making it perfect for transparent repairs, or projects that require invisible seams.

Recommended bonding surfaces include, but are not limited to:

Metal	Glass	Ceramics	Wood	Rigid Plastics	China
Tile	Fibreglass	Concrete	Stone		

PRODUCT LIMITATIONS

- Not recommended for polyethylene, polypropylene, non-stick coatings, nylon products, or flexible materials
- Not suitable for applications requiring short-term heat exposure greater than 150°C
- Not recommended for applications with prolonged water immersion
- Not suitable for use on potable water systems

APPLICATION

Note: The dual syringe this product arrives in will ensure that both Parts A and B are dispensed equally, so no manual measurement will be required.

On a clean mixing surface, dispense equal measurements of Part A (Resin) and Part B (Curing Agent). Stir thoroughly clockwise along the inner wall of the mixing surface.

For best results, apply a small amount of adhesive to both surfaces within 1 – 2 minutes of mixing, and press together. Support the bond for up to 10 minutes at room temperature.

TECHNICAL DATA

Application Properties

Lowest Recommended Temperature	15°C
Humidity	Max. 85%
Curing Conditions	2 grams: 5 mins @ 25°C
Pot Life	100 grams: 2 mins @ 25°C
Gel Time (5g:5g)	4 to 10 minutes*
Handling Time	20 minutes*
Usable Strength (500 psi)	30 minutes*
Full Cure	24 hours*

**Dependent upon temperature, humidity, and thickness of epoxy applied*

Uncured Adhesive Properties

Colour (Resin & Hardener)	Colourless to clear amber
Base	Epoxy Resin / Polymercaptan Hardener
Odour	Mind amine
Specific Gravity	Resin: 1.15, Hardener: 1.05
Viscosity	Resin: 8,000 – 12,000 cps, Hardener: 5,500 – 8,500 cps
Flash Point	Resin: >249°C, Hardener: >93°C
VOC Content (Resin & Hardener)	0.1% by weight (CARB)
Shelf Life (unopened)	24 months from date of manufacture
Resistance to Freezing	Undamaged by freezing

Note: If product is frozen, warm to room temperature until the resin and hardener become liquid enough to mix.

Cured Adhesive Properties

Colour & Form	Colourless, non-flammable solid
Service Temperature (Continuous/Long-Term)	-23°C to +49°C
Service Temperature (Intermittent/Short-Term)	-23°C to +150°C
Water Resistant	Yes
Sandable	Yes
Paintable	No
Hardness (Shore D)	82
Voltage Resistance	22 KV/mm
Bending Strength	25Kg/mm^2
Volume Resistance	1x10^{15} Ohm3
Surface Resistance	5x10^{15} Ohm-m2
Thermal Conductivity	0.56 W/M.K
Electricity Loss	0.42 per 1KHZ
Heat Distortion Temperature	140°C
Water Absorption	< 0.15%
Compressive Strength	11.4Kg/mm^2

The above typical performance data are measured in a laboratory environment with a temperature of 25°C and a humidity of 70%.

Product Performance Testing

Tensile Shear Strength	Cure Time	Result
Cold Rolled Steel, Sandblasted	1 hour 4 hours 24 hours 7 days	1322 ± 128 psi (9.11 ± 0.88 N/mm²) 2494 ± 78 psi (17.20 ± 0.54 N/mm²) 3137 ± 58 psi (23.70 ± 0.40 N/mm²) 3426 ± 155 psi (23.62 ± 1.07 N/mm²)
Aluminium, Sandblasted	24 hours	2055 ± 290 psi (14.17 ± 2.0 N/mm²)
Aluminium, Sandblasted, H20 Immersion	7 days	2048± 160 psi (14.12 ± 1.10 N/mm²)

Solvent Resistance	Immersion Time	Result
Aluminium, 7 day cure	Gasoline, 24hrs	3216 ± 275 psi (22.17 ± 1.90 N/mm²)

Compressive Shear Strength	Cure Time	Result
Sanded Hard PVC (White)	24 hours	1081 ± 199 psi (7.45 ± 1.37 N/mm²)
Sanded Acrylite FF	24 hours	958 ± 268 psi (6.61 ± 1.85 N/mm²)
Maple	24 hours	2088 ± 243 psi (14.40 ± 1.68 N/mm²)

Side Impact Resistance	Cure Time	Result
Sand Blasted Cold Rolled Steel, 1” x 1”	7 Days	6.8 Joules

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.