

## Technical Data Sheet

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Safety Data Sheets, product photos, and other information can be obtained by visiting [www.chemtools.com.au](http://www.chemtools.com.au)



# Rapidstick™ RS-40 Formwork Silicone Sealant

PART NUMBER	COLOUR	AVAILABLE SIZE*
8-RS40CL-300	Clear	300ml Cartridge

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

## DESCRIPTION

Chemtools® Rapidstick™ RS-40 Formwork Silicone Sealant is a high-quality neutral curing sacrificial sealant for eliminating leakage and retaining moisture in formwork and bedding applications. It provides excellent adhesion to various substrates commonly found in construction, such as concrete, timber, metal, masonry, and plastic.

RS-40 offers superior durability, waterproofing, and weather resistance, retaining flexibility to accommodate movement while sealing joints, gaps, and junctions for a smooth, no-bleed, concrete finish. Its non-toxic, non-corrosive, and non-sagging formulation is fast curing and suitable for both horizontal and vertical applications.

## FEATURES & BENEFITS

- Single component neutral cure formulation
- Anti-sagging with low shrinkage
- Excellent adhesion to multiple substrates
- Suits both horizontal and vertical applications
- Superior durability and weather resistance
- Permanently flexible to accommodate form movement
- Waterproofs and retains moisture in bedding applications
- Easy to apply and tool
- Non-corrosive and non-toxic
- Fast cure time for efficient workflow
- Low odour and suited to both indoor and outdoor applications

## APPLICATION

1. Ensure the surface is clean, dry, and free of dust, grease, and contaminants before applying.
2. Cut the tip of the cartridge at a 45-degree angle and load it into a caulking gun.
3. Apply a continuous bead of sealant along the formwork joint or gap, ensuring full contact with both surfaces.
4. Tool the sealant with a spatula or finger to achieve a smooth finish.
5. Allow the sealant to cure as per the specified time before exposing it to moisture or traffic.

*Note: This product is not recommended for direct application on substrates that seep oil.*

## TECHNICAL DATA

Cure System	Neutral (atmospheric moisture curing)
Material	Silicone polymer
Appearance	Smooth, non-grainy, no agglomeration
Density (ISO 1183)	1.02 ± 0.02 g/cm <sup>3</sup>
Flow Resistance	0mm
Coverage	300ml cartridge will seal approx. 10 meters with a 6mm bead
Skin Cure Time <sup>1</sup>	7-10 mins (@ 50% RH)
Cure Time <sup>1</sup>	Approx. 20 - 22 Hours (@ 25°C & 50% RH)
Working Time	20 - 30 mins
Slump or Sag	Non-sagging
Full Adhesion	48 Hours
VOC Content	25g/L
Shore A Hardness <sup>1</sup>	32
Peel Strength	None

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Tension Adhesion Strength	0.22 mPa (@ 25% Extension), 0.27mPa (@ 50% Extension)
Joint Movement Capability	+/- 55%
Application Temperature Range <sup>1</sup>	-10 to +40°C
Service Temperature Range <sup>1</sup>	-50 to +200°C
Recommended Storage Temperature	10 to 25°C (do not exceed 45°C)
Shelf Life (unopened)	12 months when stored continuously in cool, dry conditions

Note: Application of the sealant at -10°C is permissible provided the surface to receive the silicone is dry and free of frost. The maximum service temperature listed is for transient temperature; the silicone sealant will deteriorate if subjected to these temperatures on a continuous basis.

Testing Conditions: Temperature: 23°C, Relative Humidity: 50%, Test Period: 28 Days

<sup>1</sup> Standard: GB/T 13477.5-2003

### 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. Store in a cool, dry place at room temperature (5 – 40°C). Do not return any unused material to its original container. 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.