



Technical Information

DESCRIPTION

SLIPICONE® release agent is a heat-stable silicone anti-stick agent. Effective in solving a wide range of sticking or adhesion problems, it can be used in many industries.

BENEFITS

The silicone film formed by SLIPICONE® release agent resists breakdown which leaves carbonaceous residues or gummy surfaces. It has low volatility at temperatures up to +199°C and a flash-point above +315 °C. It has good oxidation resistance and has little effect on metals and plastics.

APPLICATIONS

SLIPICONE® release agent is excellent for releasing and lubricating in a variety of industries.

For food & beverage industry:

- Increases heat transmission and sealing speed; reduces package discolouration; minimises cleaning time.
- Releases evaporated milk and powdered milk from evaporator and pre-heater tubes.
- Reduces adhesion of residues on heating coils and cooking kettles.
- Lubricates sliding doors on display cases, refrigerator and freezer door gaskets.
- Helps prevent seizing and jam-ups of conveyor guide rails and scrambler tables.
- Facilitates the release of frozen vegetables and fruit from trays and freezer filling spouts.
- Reduces adherence of dried foods to drying trays, and large cheese wheels to storage shelves.
- Hastens the removal of dried food from stove burners and ovens; prevents adhesion of grease; makes cleaning stainless steel fixtures and counter tops easier.
- Helps prevent glasses from sticking to cooling cones.

SLIPICONE®

Silicone release agent

Physical form	Silicone fluid
Special properties	Heat stable, non-toxic
Primary uses	Release agent and lubricant for many industrial food applications

- Keeps sugar from sticking to processing and packaging equipment such as guides, dispensing chutes, table tops and drying trays.

For printing industry:

- Keeps metal from sticking to tail sheets.
- Allows saw blades, saw tables, and storage trays to work more smoothly.
- Reduces sticking of conveyors, pulleys and valves.

For bindery industry:

- Reduces build-up on glue pots and paste jars.
- Makes tables and cutter surfaces slippery, so that paper magazines, books and bundled newspapers can be handled easier.

For flexography applications:

- Reduces ink transfer from cellophane or plastic films in reverse-side printing, when sprayed on idle rollers.
- Helps prevent ink from creeping onto idle rollers used in printing gift wrap, multi-wall bags and similar applications.

TYPICAL PROPERTIES

These values are not intended for use in preparing specifications.

Colour	Clear
Solidification point, °C	-40°C
Metals content	Nil
Drying time, minutes	3
Propellant	Propane/butane (non-CFC)
Flame extension, CPSCM method 1500.45	<18 inches
Shelf life	24 months

NOTE:

All test machine data represent average values from several tests. They should not be used as a basis for specification. In view of the immense number of variables which can influence a lubrication process, individual applications should be thoroughly tested in order to conclude satisfactory performance.

Specification Writers: Please contact DC Products Pty Ltd before writing specifications on this product.



In addition to specific industry-related uses SLIPICONE® release agent also:

- Helps prevent glue from adhering to walls of containers; makes it easy to remove dried glue from equipment.
- Lubricates dispensing valves, package and coin chutes of automatic vending machines.
- Provides easy removal of hosiery from boarding forms.
- Speeds fabric flow by reducing bunching when used on garment-cutting tables, knives, sewing-machine feeders and needles.
- Reduces seizing of hold-down bolts and guide pins used in moulding rubber and plastics.
- Reduces smudging of ink on delivery tapes and prevents build-up of lead in printing-type moulds; eliminates transfer of ink from plastic film in reverse-side printing; and helps prevent ink set-off on wet back-up of impression cylinder tympan sheet.
- Reduces friction on hand irons and pressing equipment.
- Provides for smooth, easy cutting and reduces binding when applied to the cutting edges of tools; reduces clogging of saw teeth when sawing gummy woods or non-ferrous metals.
- Provides for smoother, faster materials handling on chutes, tables and rollers.

Note:
Securing or including complete information on the above uses such as reapplication schedules, amount to use, etc., is impractical. For this reason the suitability of SLIPICONE® release agent should always be tested before it is adopted for regular use.

HOW TO USE

SLIPICONE® release agent should be applied to clean surfaces. Clean off any surface residue with a fine emery cloth or scouring powder until the surface is shiny; then wipe with a clean cloth moistened with a non-flammable solvent to remove dirt and abrasive particles.

Methods of application vary depending upon the size, accessibility and complexity of the unit to be processed or packaged. Usually SLIPICONE® release agent is sprayed in a light film. Can should be held 10 to 20cm away from surface, depending on film thickness desired.

Approximately 3 minutes drying time should be allowed. It can also be buffed onto metal surfaces with a hand buffer. Only a thin film is needed for effective release. This film should be restored as required.

Freshly cleaned heat-sealing units such as irons and bars should be broken in at full operating temperature for a short period after applying SLIPICONE® release agent. After any excess silicone has been wiped off the unit is ready for use.

Solubility

SLIPICONE® release agent is insoluble in water, ethanol, acetone, glycol and glycerine. It can be dispersed in petroleum distillates, toluene, carbon tetrachloride, petroleum ether, methylene chloride or perchloroethylene. The use of any solvent should always be conducted with adequate ventilation. Follow precautionary label on solvent container.

Rating for use in Food Industry

SLIPICONE® release agent is suitable for incidental food contact. Ask our staff for the rating or Allergen statement.

Toxicological Information

Extensive testing on laboratory animals shows that SLIPICONE® release agent is essentially non-toxic and causes no irritation to the skin. Tests indicate that SLIPICONE® release agent is safe to use in sealing packages containing food. The use of any solvent may increase toxicity.

CAUTION

SLIPICONE® release agent should not be applied to surfaces which will later be painted, since it may interfere with the adhesion of the paint.

SAFETY INSTRUCTIONS

This product in aerosol version contains a flammable solvent. Do not spray in a confined space where the possibility of spark ignition exists. This or similar situations could result in a flammability hazard.

TRANSPORTATION INSTRUCTIONS

SLIPICONE® release agent cannot be shipped on passenger aircraft.

STORAGE

Store at or below +35°C.

PACKAGING

SLIPICONE® release agent is supplied in 300gm aerosol cans.

USERS PLEASE READ

The information and data contained herein are believed to be accurate and reliable; however, it is the user's responsibility to determine suitability of use. Since DC Products cannot know all of the uses to which its products may be put or the conditions of use, it makes no warranties concerning the fitness or suitability of its products for a particular use or purpose.

You should thoroughly test any proposed use of our products and independently conclude satisfactory performance in your application. Likewise, if the manner in which our products are used requires governmental approval or clearance, you must obtain it.

DC Products warrants only that its products will meet its specifications. There is no warranty or merchantability or fitness for use, nor any other express or implied warranty. The user's exclusive remedy and DC Products's sole liability is limited to refund of the purchase price or replacement of any product shown to be otherwise than as warranted. DC Product will not be liable for incidental or consequential damages of any kind. Suggestions of uses should not be taken as inducements to infringe any patents.