



Technical Data Sheet

SYL-OFF™ SL 7588 Coating

FEATURES

- Solvent-free
- Effective fast cure
- Non-blocking and provide stable release force
- Low migratory release liner
- Minimal post-cure

BENEFITS

- Low release force
- Flexibility to use with control release additives

Base polymer component for SYL-OFF™ solvent-based, platinum-catalyzed silicone release coatings

APPLICATIONS

This product is suitable for use on general as well as specialty release substrates coated from solvent in the following applications:

- Release liners for pressure sensitive adhesive laminates/label stock.
- Coating for liners of technical adhesive tapes.
- In-line, single and double-sided industrial papers and films.
- Non-stick packaging

TYPICAL PROPERTIES

Specification Writers: These values are not intended for use in preparing specifications.

Test	Unit	Result
Type		Reactive siloxane polymer
Physical Form		Viscous Liquid
Color		Colorless
Active Ingredients	%	100
Specific Gravity at 25°C (77°F)		0.97
Viscosity at 25°C (77°F)	mPa.s	7,500

DESCRIPTION

SYL-OFF™ SL 7588 Coating is a base polymer component with reactive siloxane polymer.

HOW TO USE

This SYL-OFF™ polymer is one component of a multicomponent silicone release coating system. In order to use this product effectively, it must be blended with the appropriate SYL-OFF™ polymers, crosslinkers, catalysts, solvent and additives. The formulated SYL-OFF SL 7588 Coating is suited for coating substrates with good solvent hold-out. Typical substrates include:

- Polyethylene coated kraft
- Super calendered kraft
- Clay-coated kraft
- Glassines
- Plastics films and metal foils

Paper substrates need careful consideration. The pre-coat found on some substrates can affect the cure. It is important, therefore, that users check the compatibility of the silicone coating and the substrate.

Bath Preparation

The coating cures by an addition reaction in the presence of heat. If a coating requires a very fast cure, the extra amount of platinum catalyst may be added.

The following procedure is recommended for the preparation of the coating bath. Equipment should be clean and dry, preferably constructed from stainless steel or glass.

1. Disperse SYL-OFF SL 7588 Coating in the process solvent heptane, naphthalene No. 120 solvent or other aliphatic solvents. The suggested bath solids are 20 to 50 % silicone on a weight basis.
2. Add crosslinker such as SYL-OFF™ 7679 or SYL-OFF™ 7682-055 and disperse thoroughly.
3. Add Pt catalyst SYL-OFF™ 4000

Table 1: Typical formulation using SYL-OFF 7588 Coating

Component	wt. %, parts
SYL-OFF SL 7588	
Coating	100
SYL-OFF 7679	1.9-2.3
SYL-OFF 4000	1.2 – 2.0
Solvent	100 to 400

4. Optional components include:
 - Release modifier such as SYL-OFF™ 7200 and SYL-OFF™ SL 18 as control release additives.
 - Anchorage additive such as

NOTE: When transferring flammable liquids from one container to another, there is a fire risk due to static electric charge build-up. This risk is minimized by connecting both containers to a common ground.

Bath Life

The life of the formulated bath viscosity varies considerably with bath concentration, the solvent, the specific formulation, and the temperature of the surroundings. Under normal conditions the bath should still be usable with in 6 hours.

HANDLING PRECAUTIONS

Direct eye or skin contact may cause slight irritation, which can be relieved by flushing the eye with water for 15 minutes.

It is recommended that safety glasses and rubber or plastic gloves be worn when handling this product.

If swallowed, do not induce vomiting, but obtain medical attention. This product has a low order of toxicity but may cause poisoning if solvent is aspirated into the lungs.

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT WWW.CONSUMER.DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

USABLE LIFE AND STORAGE

When stored at or below 35°C (95°F) in the original unopened containers, this product has a usual life of 12 months from the data of production.

PACKAGING INFORMATION

SYL-OFF SL 7588 Coating is available in pail packaging and drum packaging. Contact your local Dow sales representative for information about container sizes available in your area.

FOOD CONTACT This product may comply with certain FDA, BgVV, Kosher or other regular agency requirements for food-contact applications. Contact your local Dow representative for current compliance information.

LIMITATIONS

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

HEALTH AND ENVIRONMENTAL INFORMATION

To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area.

For further information, please see our website, www.consumer.dow.com or consult your local Dow representative.

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