



## SUNCRYL® 4400

Release coating for flexo applied applications

**SunCryl 4400** release coating is an aqueous emulsion copolymer containing silicone and provides a medium release surface for hot melt, solvent-based and aqueous adhesives. The clear coating is used in self-wound roll labels, paper tapes and 'stacked' self-adhesive coupon products. Rheology suitable for flexo printing and good surface adhesion.

### TYPICAL PROPERTIES

#### PHYSICAL PROPERTIES

Solids	39–41%
pH	3.0–4.0
Brookfield Viscosity	700–1300 cps (RVT #2 spindle at 20 rpm, 25°C)
Glass Transition Temperature	+30°C
Color	White

#### CHEMICAL/MECHANICAL PROPERTIES

Mechanical Stability	Excellent
Ionic Character	Anionic

### APPLICATIONS

OMNOVA Solutions supplies release coatings at 36–45% solids with the intention that the customer will dilute to 20–32% solids before application. It is good practice to always stir the release coating prior to and after diluting.

Release coatings may be applied to either the crepe or smooth side of the paper. Recommended coating application techniques include Mayer rod, knife, air knife, rotogravure and flexogravure. A common application target coat weight is 4–6 g/m<sup>2</sup> dry.

During drying of the coating, the surface temperature of the web should be allowed to reach 135–150°C to fully cure the polymer, with an optimal performance at 150°C. Reaching the recommended temperature is more important than the dwell time with which the web is exposed.

OMNOVA provides many primers and release products designed for the tape and label industry. Because the nature of tape and label products is influenced by the selection of adhesive, application techniques and use expectations, the system should be thoroughly tested in actual end-use conditions to ensure that the desired performance is achieved. Please call your OMNOVA representative to discuss your particular primer or release coating needs.

#### SUNCRYL 4400 ADVANTAGE

- Medium release level
- Aqueous emulsion—no solvent emissions
- Easy to apply with knife, roll or flexo applicators
- Provides self-wetting coating even when used over offset ink



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### STORAGE, HANDLING AND PACKAGING

This product is available in a tank truck or 2200 lb. tote.

Protect product from freezing. Recommended storage temperature is 70°F (22°C). When stored as recommended, the shelf stability of the product is six (6) months. Stir and mix well before using.

As with all chemicals, please read the material safety data sheet (MSDS) prior to use. An MSDS for each OMNOVA product is provided with the shipment and periodically thereafter. An MSDS also may be obtained at any time by contacting your Customer Service Representative or by calling (888)253-5454.

To learn more about this product, or any other of OMNOVA Solutions' specialty chemicals, please contact us at:

Phone: (803)385-5181 • Email: [pccustserv@omnova.com](mailto:pccustserv@omnova.com)



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OUR COMMITMENT TO SUSTAINABILITY

NOTE: Although the data supplied above is believed to be accurate, each user is advised to make an independent determination as to whether the described product(s) is/are appropriate for a particular use or application, whether such use will comply with all applicable laws or regulations, or whether such use will infringe the intellectual property rights of third parties.