

AnchorSil* 2000

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Description

AnchorSil 2000 anchorage additive is a 100% active organo-functional reactive polymer designed to improve anchorage of Momentive thermally cured solventless silicone release coatings to polyester films.

Key Features and Benefits

- Improves anchorage on a variety of treated and untreated polyester films
- Improves anchorage of formulations with and without controlled release additive
- Compatible with all Momentive thermally cured solventless silicone release coatings
- Easily mixes with Momentive thermally cured solventless silicone release coatings
- Does not adversely affect release performance, coverage and bath life of release coatings

Typical Physical Properties

Property	Value	Unit of Measure
Viscosity @ 25°C	215	cst, 25°C (77°F)
Density	8.819	Lbs./gal
Specific Gravity	1.060	-
Hydride Content	0.7	weight %
Flash Point (PMCC)	82	°C

Potential Applications

AnchorSil 2000 anchorage additive may be used with all Momentive vinyl functional solventless thermally cured silicone release coatings for improved anchorage on a variety of polyester films.

Patent Status

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Product Safety, Handling and Storage

The limited warranty period is 3 months from date of shipment from Momentive Performance Materials if stored in the original unopened container below 4°C (39°F). Note that Anchorsil 2000 anchorage additive is a reactive product and can evolve hydrogen over time if stored at temperatures greater than 4°C (39°F) (See Figure 4). Storage at temperatures greater than 4°C (39°F) will also shorten storage life (see Figure 5). If frozen, care should be taken not to introduce moisture from condensation. Opened, partially used containers should be tightly recapped and returned to storage below 4°C (39°F) when not in use. Introduction of

moisture should be avoided and if capable, a dry nitrogen atmosphere should be replaced in order to ensure optimum storage stability.

Figure 4: AnchorSil 2000 Anchorage Additive Hydrogen Evolution Versus Storage Temperature

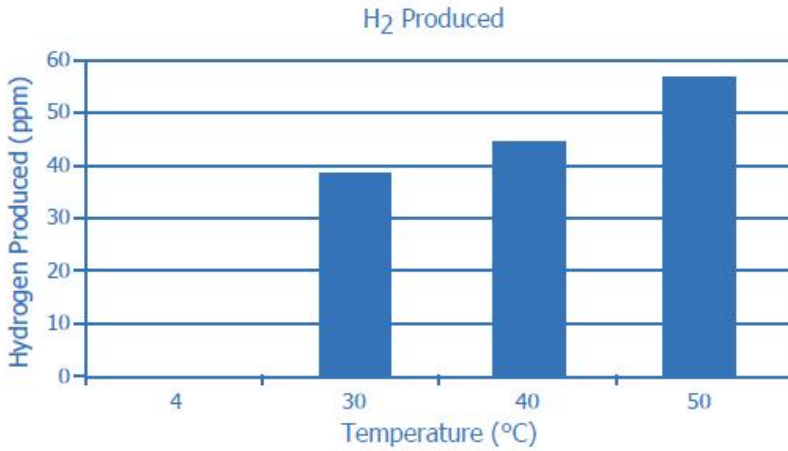
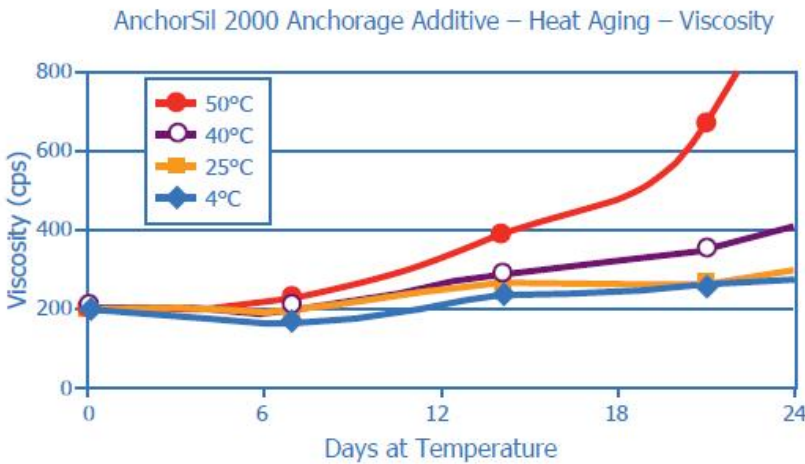


Figure 5: AnchorSil 2000 Anchorage Additive Viscosity Stability Versus Storage Temperature



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Processing Recommendations

AnchorSil 2000 anchorage additive is compatible with all Momentive thermally cured solventless silicone release coatings. For best results, it should be added to the silicone formulation at the same time the crosslinker is added and thoroughly mixed prior to use. The level of addition will depend on the type of polyester film and actual curing conditions. In general, 2 to 4 parts per hundred (pph) polymer addition of AnchorSil 2000 anchorage additive is sufficient to obtain optimum anchorage, but the actual required concentration should be established and optimized during extensive machine trials by the customer.

Table 1: Typical Starting Formulations for SL6625/SL6635 Release Coating System

	AnchorSil 2000 Anchorage Additive Concentration							
	0 pph		2 pph		3 pph		4 pph	
Component	Parts by Weight							
SL6625	100	75	100	75	100	75	100	75
SL6635	0	25	0	25	0	25	0	25
AnchorSil 2000 anchorage additive	0	0	2	2	3	3	4	4
SS4300C ⁽¹⁾	3.3	4.3	2.4	3.5	2.0	3.0	1.6	2.6

(1)SS4300C concentrations adjusted for hydride content in AnchorSil 2000 anchorage additive to maintain a constant SiH:Vi ratio. Contact your local Momentive technical or sales representative for further assistance.

Table 2: Typical Starting Formulations for SL7025 Release Coating System

	AnchorSil 2000 Anchorage Additive Concentration			
	0 pph	2 pph	3 pph	4 pph
Component	Parts by Weight			
SL7025	100	100	100	100
AnchorSil 2000 anchorage additive	0	2	3	4
SS4300C ⁽²⁾	4	3.1	2.7	2.3

(2)SS4300C concentrations adjusted for hydride content in AnchorSil 2000 anchorage additive to maintain a constant SiH:Vi ratio. Contact your local Momentive technical or sales representative for further assistance.

Note: Since AnchorSil 2000 anchorage additive contains hydride, the final amount of crosslinker in the formulation needs to be adjusted to maintain equal hydride to vinyl (SiH:Vi) ratio in formulations. This is particularly important in pressure sensitive constructions utilizing adhesives that are sensitive to hydride level. Thorough evaluation of the finished product performance is recommended before large quantities of material are manufactured.

AnchorSil 2000 anchorage additive improves the anchorage of thermally cured solventless silicone release coatings to a variety of polyester films. Higher web temperature, longer dwell time and in-line corona treatment have been found to further improve anchorage. On some substrates and at specific curing conditions, corona treatment may be optional although still recommended as illustrated in Table 3 and Table 4.

Table 3: SL7025 Anchorage on Polyester Film at Various Web Temperatures and Oven Dwell Times.

		SL7025 with 3 pph AnchorSil 2000 Anchorage Additive	SL7025 with 3 pph AnchorSil 2000 Anchorage Additive	SL7025 only
Exit Web Temp	Dwell Time	With Corona	Without Corona	With Corona
(°F)	(sec)	(2W/ft ² /min)	–	(2W/ft ² /min)
250	6	No Rub Off	No Rub Off	Rub Off
250	4	No Rub Off	No Rub Off	Rub Off
250	3	No Rub Off	No Rub Off	Rub Off
250	2	No Rub Off	Rub Off	Rub Off
280	6	No Rub Off	No Rub Off	Rub Off
280	4	No Rub Off	No Rub Off	Rub Off
280	3	No Rub Off	No Rub Off	Rub Off
280	2	No Rub Off	Rub Off	Rub Off

Contact Information

For product prices, availability, or order placement, contact our customer service at [Momentive.com/Customerservice/](https://www.momentive.com/Customerservice/)

For literature and technical assistance, visit our website at: www.momentive.com

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