

SilForce™ SS4259C Release Coating

SilForce* SS4259C Release Coating

Description

SilForce SS4259C cure accelerator is an additive for the SS4191 release coating system that promotes faster crosslinking at reduced temperature. SS4259C is a toluene solution of poly(methyl-aminoalkoxy)siloxane polymer. SS4259C is blended with SS4191A, SS4191B, and sufficient solvent to meet coatweight targets, prior to introduction of SS4192C catalyst.

SYSTEM COMPONENTS:

- SilForce SS4191A silicone gum solution
- SilForce SS4191B methyl hydrogen crosslinker
- SilForce SS4192C tin catalyst
- Silforce SS4259C cure accelerator

Typical Physical Properties

PROPERTY	SS4191A	SS4191B	SS4192C	SS4259C
Haze	30 max.	10 max.	----	30 max.
Appearance	OK	OK	OK	OK
Color Apha	----	15 max.	----	----
Color Gardner	----	----	----	2 max.
Solids %	28-30	----	41-45	48-52
Weight Loss %	----	7-10%	----	----

Solvent	toluene	NA	toluene	toluene
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Patent Status

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Product Safety, Handling and Storage

The warranty period for SS4191A and SS4191B is 6 months, and the warranty period for SS4192C and SS4259C is 12 months from date of shipment from Momentive Performance Materials if stored in the original unopened container at temperatures no greater than 25° C (77° F).

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Processing Recommendations

To obtain the maximum stability from the SS4191A and SS4191B components when formulating a bath, it is important to follow a specific order of addition along with adequate mixing time to assure a uniform dispersion.

1. Dilute the SS4191A solution to the desired concentration with an appropriate solvent and mix until thoroughly dispersed.
2. Add the SS4191B crosslinker and mix thoroughly. (The objective is to assure a homogeneous dispersion).
3. Add the SS4259C accelerator and mix until uniformly dispersed.
4. Add the SS4192C catalyst and mix until uniformly dispersed. The bath is now ready for use.

SUGGESTED FORMULATIONS

SS4191A and SS4191B components are designed to be used in the ratio of 393 lbs. to 7 lbs. respectively (equivalent ratio of 100 to 1.78). To prepare a 5% solids bath, equivalent formulations are as follows: (In this example, the SS4192C catalyst and the SS4259C accelerator are both at the 2.5% levels based on the amount of SS4191A

plus SS4191B components or the amount of SS4191 coating in each formulation).

<u>4 COMPONENT SYSTEM*</u>		<u>3 COMPONENT SYSTEM*</u>	
SS4191A	16.4	SS4191	16.7
Solvent	82.5	Solvent	82.5
SS4191B	0.29 (0.3)	---	--
SS4192C	0.4	SS4192C	0.4
SS4259C	0.4	SS4259C	0.4

* Number of Silicone (SS) Components only

SS4191 A + B BLEND CHART

The following chart gives percent SS4191A + SS4191B components to be used in formulating various silicone solids coating baths for the SS4191A and SS4191B component system. The levels of SS4192C catalyst and SS4259C accelerator are based on 2.5%. Higher or lower levels can be used depending on application. The order of addition should be the same as shown.

Mixing Instructions:

- Dilute the SS4191A component to the desired silicone solids concentration with your solvent and mix until thoroughly dispersed.
- Add the SS4191B component and mix until thoroughly dispersed.
- Add the SS4259C accelerator and mix thoroughly.
- Add the SS4192C catalyst and mix thoroughly.

% Silicone Solids in Coating Bath	3%	4%	5%	6%	7%	8%
% by weight of SS4191A	10.0	13.3	16.4	20.0	23.3	26.7
Solvent	89.32	85.78	82.47	78.62	75.11	71.46
SS4191B	0.18	0.24	0.29	0.36	0.41	0.48
SS4192C	0.25	0.34	0.42	0.51	0.59	0.68
SS4259C	0.25	0.34	0.42	0.51	0.59	0.68

Limitations

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Availability

Momentive Performance Materials is making SS4191 coating available as a split kit of SS4191A and SS4191B components with the same total weight (400 lbs.) and current pricing as when SS4191 coating is sold as a single material. The split kit is sized such that one 393 lb. drum of SS4191A solution is designed to go with one 7 lb. pail of SS4191B cross-linker. When ordering the new split kit, specify the number of drums of SS4191A component required. Our customer service representatives will code your order for complete shipment. SS4191A and SS4191B components are not sold separately.

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