

SilForce™ SS6800 Silicone Solution

Description

SilForce SS6800 is a silicone solution that utilizes a platinum catalyzed addition cure, being cross-linked by XC94-C4326 catalyst with SHF-475 as the cross-linker. It is used for coating on PEK paper, foils and plastic substrates.

Key Features and Typical Benefits

- Low temperature/high speed cure
- Low release of various adhesives
- Excellent subsequent adhesion
- Non-blocking
- General type

Typical Physical Properties (uncured)

Appearance	Colorless, transparent
Silicone Solid, %	30
Viscosity (25 °C) Pa·s (cP)	15 (15000)
Specific Gravity (25 °C)	0.9
Solvent	Toluene/Xylene

Typical Physical Properties (cured)

Release Force ⁽¹⁾ (0.3m/min) N/2.5m (gf/2.5cm)	14
Subsequent Adhesion Force % ⁽¹⁾	90
Cure Time (Tack Free, 90 °C) s	10

Typical properties are average data and are not to be used as or to develop specifications.

Potential Applications

- Release sheets for wallpaper, labels
- Release films
- Release papers for double-sided tape
- Water-repellent finishing for papers and fibers

⁽¹⁾ Test Conditions

1. Evaluation of Release Force

1-1. Preparation of silicone coated paper

Formulation. SilForce SS6800: SHF-475: XC94-C4326 =
100: 1.35: 1 (by weight)

Base sheet Polyethylene-laminated paper (75g/m²)

Coating weight of silicone. 0.3g/m² (dry)

Cure condition 30s at 140 °C

Aging condition. 1 day at 25 °C, 50%RH

1-2. Test tape

Tape Tesa 7475

Aging condition. 1 day at 70 °C, 50%RH

2. Evaluation of subsequent adhesion force

Test tape Nitto 31B

Aging condition. 20h at 70 °C

General Considerations for Use

PREPARATION OF COATING BATH

Dilute SilForce SS6800 to desired silicone concentration with solvent and stir until completely dissolved. Add the required amount of SHF-475 crosslinker and XC94-C4326 catalyst agent, then mix thoroughly.

Typical Formulation (for 5% silicone content)

SilForce SS6800.	100 (weight parts)
Toluene (solvent)	497.65 (weight parts)
SHF-475 (Crosslinker)	1.35 (weight parts)
XC94-C4326 (catalyst).	1 (weight parts)
Total	600 (weight parts)

Cure speed is dependent upon the amount of catalyst added and temperature. A preliminary test is recommended.

Product formulations are included as illustrative examples only. Momentive makes no representation or warranty of any kind with regard to any such formulations, including, without limitation, concerning the efficacy or safety of any product manufactured using such formulations.

Notes

- SilForce SS6800 is an addition cure type. Proper care should be taken to ensure that catalytic poisons such as amines, sulfur, organic tin compounds, etc. are not mixed in the coating bath.

Current Packaging

Currently available in 18kg pail and 180kg drum.

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

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Limitations

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