

SilForce™ XS56-B0671 Release Coating

Description

SilForce XS56-B0671 release coating is a hazy, amber colored viscous, highly reactive cycloaliphatic epoxy functional silicone fluid intended for use with the SilForce UV9XXX photocurable silicone release coating system. This polymer is intended for applications where a high viscosity coating and / or release of very aggressive acrylic and mastic adhesives is required. SilForce XS56-B0671 may possess a slight, characteristic odor.

Key Features and Benefits

SilForce XS56-B0671 provides for easy release from aggressive pressure sensitive adhesives such as solvent borne acrylics, mastics and hydrogels when added to SilForce UV curable base polymers such as SilForce UV9315 or SilForce UV9300. SilForce XS56-B0671 is a high viscosity polymer averaging 5000-8000 centistoke; as such, it can be added to lower viscosity coating baths to promote superior holdout on porous substrates such as non-woven fabrics, gasketing materials, and similar sheets.

Typical Formulations:

SilForce UV9315	90 parts	SilForce UV9300	75 parts	SilForce UV9400	50 parts
SilForce XS56-B0671	10 parts	SilForce XS56-B0671	25 parts	SilForce XS56-B0671	50 parts
SilForce UV9380C	2 parts	SilForce UV9380C	3 parts	SilForce UV9380C	2 parts
(for premium release of acrylic PSAs)		(for release of difficult mastics)		(for high viscosity applications)	

Typical Properties:

Viscosity (25C):	4000 - 12000 cps
Color:	Pale yellow to amber
Odor:	Slight

Product Use

SilForce XS56-B0671 can be used in any proportion with other compatible epoxysilicone polymers including SilForce UV9300, SilForce UV9315, and SilForce UV9400. It is not recommended for use with tight release polymer SilForce UV9430. Depending on substrate and application, 100 parts of epoxysilicone polymer are blended then thoroughly mixed with 2 to 3 parts of SilForce UV9380C or SilForce UV9390C iodonium salt photocatalyst prior to application to film, paper, or other substrate. Cure is effected by exposure to focused high intensity medium pressure mercury vapor arc- or microwave- fired UV lamps.

Because of the particular structure and processing of SilForce XS56-B0671, there will be some level of silicone light end transfer from cured coatings in which it is a component to adhesives; backside transfer of silicone is also possible. SilForce XS56-B0671 additive should not be used for applications where silicone transfer cannot be tolerated such as electronics or optically clear liner. For formulation and application assistance, please consult Momentive Technical Marketing experts.

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.

Product Safety, Handling and Storage

SilForce XS56-B0671 can be stored in its original container over a broad temperature range (from 0 to 50C) without degradation; room temperature storage is recommended. The product is not considered hazardous, but good industrial hygiene practice, including normal protective clothing, should be followed when handling and processing XS56-B0671.

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if

necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at www.momentive.com or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

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

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