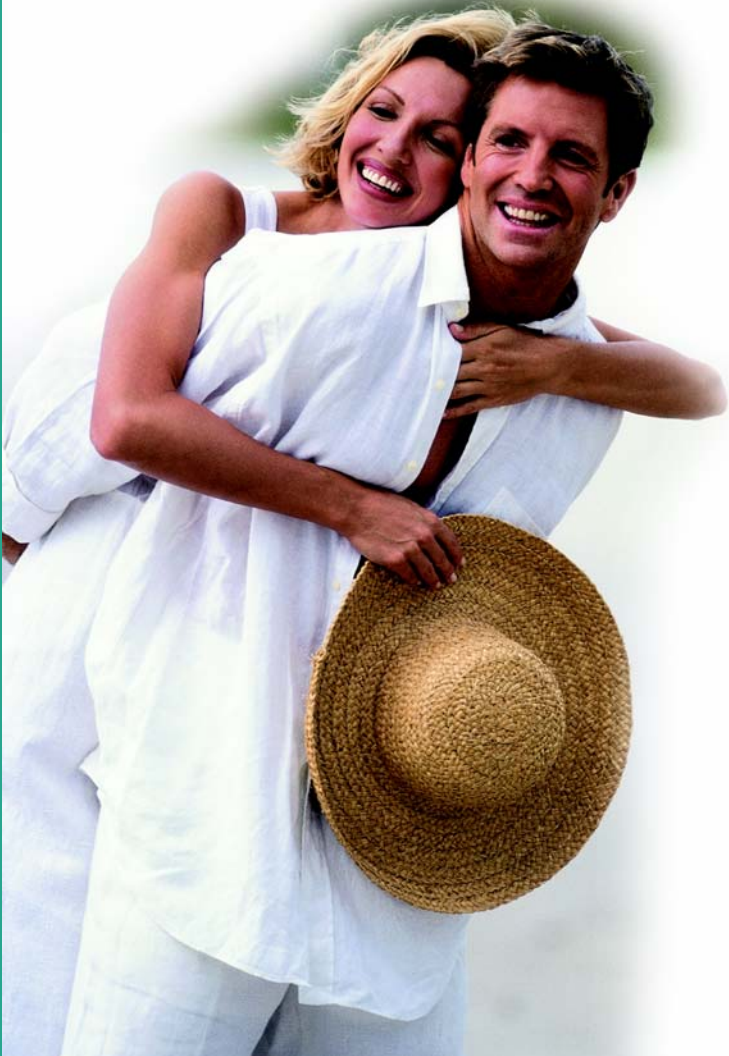


Silicone Coatings

for Fashion Textiles



Silicone

Fabric Coatings from Dow Corning

Silicone coatings provide unique functional benefits in a variety of apparel items. Their anti-slip properties make them suitable for strapless stockings and bras, socks and pant waistbands. Yet they are comfortable products, suitable for skin contact. Silicone coatings are also used to modify the “touch” or look of fashion apparel. Their UV and water resistance, water repellence, breathability and wash durability provide added value to many garments, including sportswear.

Dow Corning[®] brand silicone fabric coatings are available as room temperature vulcanizing (RTV) and liquid silicone rubber (LSR) elastomers. They can be invisible, transparent, pigmented or glossy; they have relatively high surface grip, are solvent-free, easy to process and offer better flexibility than organic coatings. They have very good adhesion to a wide variety of fabrics.

This brochure provides information on *Dow Corning* silicone fabric coatings available around the world. However, additional *Dow Corning* fabric coatings may also be available in your area. Contact your local Dow Corning representative for more information.

RTV Elastomer Features & Benefits

- Anti-slip at low Shore hardness
- Low modulus
- High elongation
- Transparent
- 100 percent solids; typically one-part systems
- Cure in ambient conditions

LSR Elastomer Features & Benefits

- High tensile and tear strength
- Transparent or pigmented, glossy
- 100 percent solids; typically two-part systems
- Cures rapidly at elevated temperatures

Product Properties and Applications

Dow Corning[®] brand Product

Description

Applications

Room Temperature Vulcanizing Elastomers

3-3442 Flowable	Flowable, translucent, high-viscosity, very soft one-part	Lace coating (tight weave) for suspenderless stocking tops and brassieres; narrow fabric coating
3-3559 Semi-Flowable Textile Sealant	Semi-flowable, transparent, very soft and transparent one-part coating with high elongation and low modulus	Lace coating (open and tight weave) for suspenderless stocking tops and brassieres; narrow fabric coating
732 Multi-Purpose Sealant	Viscous, one-part colorless paste with high elongation, tensile and tear strength	Permanent crease coating for pants
734 Flowable Sealant	Flowable, low-viscosity, one-part colorless coating with medium elongation	Narrow fabric coating; high-grip applications, such as trouser waistband and brassieres
3-7246 Textile RTV	Flowable, medium viscosity, relatively hard one-part colorless coating with medium elongation	Narrow fabric coating; high-grip applications, such as trouser waistband and brassieres

Liquid Silicone Rubbers

9252 Series LSR/ 250 Viscosity	Two-part (10:1 mix ratio), clear, solvent-free fumed silica systems with high transparency, tensile and tear strength	Sportswear; high-grip applications, such as glove coating
9252 Series LSR/ 500 Viscosity	Two-part (1:1 mix ratio), clear, solvent-free fumed silica systems with high transparency, tensile and tear strength	Sportswear; high-grip applications
9252 Series LSR/ 900 Viscosity	Two-part (1:1 mix ratio), clear, solvent-free fumed silica systems with high transparency, tensile and tear strength	Sportswear; high-grip applications
3631 LSR	Two-part (1:1 mix ratio), clear, solvent-free fumed silica system with high elongation, high transparency and 100% Oeko-tex compliant	Narrow fabric coating; high-grip applications

Coating Selection Guide

Dow Corning® brand Product	Elongation at Break, percent	Color after Curing	Tensile Strength, MPa	Tear Strength, kN/m	Modulus, 100%, MPa	Trans- parency¹	Durometer, Shore A	Viscosity, mPa·s	Tack-Free Time, minutes	Skin-Over Time, minutes
<i>Room Temperature Vulcanizing Elastomers</i>										
3-3442 Flowable Textile Sealant	450	Clear	1.3	2.5	0.35	**	19	60,000	—	13
3-3559 Semi- Flowable Textile Sealant	550	Crystal Clear	1.5	3.0	0.34	***	17	48,000 (thixo)	—	4
732 Multi-Purpose Sealant	550	Clear	2.2	5	0.4	**	25	Paste	20	5-10
734 Flowable Sealant	315	Clear	1.5	3	—	**	27	45,000	13	7
3-7246 Textile RTV	300	Clear	1.7	—	—	**	30	55,000	20	—
<i>Liquid Silicone Rubbers</i>										
9252 Series LSR/ 250 Viscosity	280	Crystal Clear	4.3	6	1.0	***	36	25,000	N/A	N/A
9252 Series LSR/ 500 Viscosity	300	Crystal Clear	6.0	8	1.0	***	40	50,000	N/A	N/A
9252 Series LSR/ 900 Viscosity	450	Crystal Clear	7.0	15	1.0	***	40	90,000	N/A	N/A
3631 LSR	800	Crystal Clear	5.0	16	0.28	***	19	90,000	N/A	N/A

¹ All ratings are relative to each other. Best = ***** Worst = *

These values are not intended for use in preparing specifications.



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