

Sealant Compatibility Chart
BRIDGESTONE EVASAFE / EVASKY / COOLSAFE



SIKA

<http://www.sika.com/>

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21.01.2011

Sealant (Batch)	Type	Sealant (S)/ Adhesive (A)	Color	Composition	Application	EVASAFE		EVASKY	
						yellowing (30d) (heat/UV)	delamination (21d) (damp heat)	yellowing (30d) (heat/UV)	delamination (21d) (damp heat)
Sikaflex 650 WT-1 (12586962)	Polyurethane (warm melt)	A	beige	1K	IGU	+	+++	n/a	n/a
SikaTack Plus Booster (12515319/12534107)	Polyurethane	A	black	1K	industrial adhesive	o	+++	n/a	n/a
SikaTack Drive (new) (12549755)	Polyurethane	A	black	1K	replacement glazing	o	+++	n/a	n/a
Sikaflex 265 (12574570)	Polyurethane	A	black	1K	bus, truck, track vehicle glazing	o	+++	n/a	n/a
Sikaflex 295 UV (12478583)	Polyurethane	A/S	black	1K	plastic glass	o	+++	n/a	n/a
Sikaflex 296 (12629068)	Polyurethane	A	black	1K	ESG, VSG, IGU in Marine	o	+++	n/a	n/a
SikaFast 5215	Acrylate	A	grey	2K	structural adhesive	o	o	o	n/a
Sikasil SG-20	Silicone	A	black	1K	facade	+	o	o	o
Sikasil SG-500	Silicone (neutral cure)	A	black	2K	facade	o	o	o	o
Sikasil WT-480	Silicone (neutral Alkoxy)	A	black	2K	window	o	o	o	o
Sikasil WS-605 transparent	Silicone (neutral cure)	S	transparent	1K	outdoor structural glazing	++	o	+	o
Sikasil WS-605 black (10/00905)	Silicone (neutral cure)	S	black	1K	outdoor structural glazing	o	+ (o) (*1)	o	o
Sikasil AS-785	Silicone (neutral cure)	S/A	?	2K	industrial adhesive	n/a	n/a	o	o
Sikasil N plus	Silicone (neutral cure)	S	?	1K	glazing	++	o	n/a	n/a
Sikasil E plus (21614310)	Silicone (acid cure)	S	black	1K	sanitary, glazing	o	++	n/a	n/a

Legend:

o	no yellowing	no delamination
+	light yellowing	light delamination
++	strong yellowing	strong delamination
+++	---	very strong delamination

Annotations: (*1) - sporadic small bubbles after 7 days damp heat test, which could not be detected any more after 14 or 21 days.

OTTO Chemie

<http://www.otto-chemie.de/otto/Home/>

12'2010

EVASAFE G 71

Colour		Glass sample after 21 weeks heat moisture aging (58°C and 95%RH) and UV	Glass sample Reference after 21 weeks storage at standard atmosphere (23°C and 50%RH)	Film after 7 weeks heat moisture aging and 14 weeks standard atmosphere
OTTOSEAL S 7 black C 04	black	OK	OK	OK
OTTOSEAL S 9 black C 04	black	OK	OK	OK
OTTOSEAL S 70 transparent C00	transparent	Film unchanged, silicone slightly yellow	OK	Film unchanged,
OTTOSEAL S 100 manhattan C 43	(grey)	Delaminations ("worm damage") in the film	1 bubble in the film,	OK
OTTOSEAL S 110 buxy C 4098 (grey)	grey	Film unchanged, silicone slightly yellow	OK	Film unchanged,
OTTOSEAL S 120 white C01	white	Film unchanged, silicone yellow	OK	Film unchanged,
OTTOCOLL S 610 black C 04	black	OK	OK	OK
Reference sample w/o silicone contact		unchanged	unchanged	unchanged

EVASKY S 11

Colour		Glass sample after 21 weeks heat moisture aging (58°C and 95%RH) and UV	Glass sample Reference after 21 weeks storage at standard atmosphere (23°C and 50%RH)	Film after 7 weeks heat moisture aging and 14 weeks standard atmosphere
Novasil S 49 black C 04	black	OK	OK	OK
Novasil S 56 white C 01	white	OK	OK	OK
Novasil SP 5737 white C 01	white	Film unchanged, silicone slightly yellow	OK	Film unchanged,
Novasil S 450 white C 01	white	OK	OK	OK
Novasil SP 5170		Film unchanged, silicone slightly yellow	OK	Film unchanged,
Novasil SP 6230		Film unchanged, silicone slightly yellow	OK	Film unchanged,
Reference sample w/o silicone contact		unchanged	unchanged	unchanged

Annotations:

According to the criteria of the ift guideline all sealants except OTTOSEAL S 100 are compatible to the tested films. The yellowing of silicone sealants under certain conditions is a known issue and is in OTTOs experiences not related to the films. Evidence is given by the fact that the sealant gets yellow all over, not only at the contact surface with the film.

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Dow Corning

<http://www.dowcorning.de/>

07'2012

Sealant (Batch)	Type	Sealant (S)/ Adhesive (A)	Color	Composition	Application	EVASAFE G71		EVASKY S11
						yellowing*	delamination*	
Dow Corning® 3362	Alcoxy Silicone (neutral)	S	black	2K	secondary IGU sealant	o	o	o
Dow Corning® 756	Elastomeric (neutral)	S (*P)	black, white, color	1K	weather sealant, fascade, expansion joints	incompatible		incompatible
Dow Corning® 781	Acetoxy Silicone (acid cure)	S (*P)	clear, colored, black	1K	weather sealant	n/a (*1)	o	n/a
Dow Corning® 787T (discontinued)	Acetoxy Silicone (acid cure)	S	clear	1K	glazing, invisible joints	incompatible		n/a
Dow Corning® 791	Alcoxy Silicone (neutral)	S	white, color, black	1K	weather sealant, facade	incompatible		o
Dow Corning® 791 T	Oxime Silicone (neutral)	S (*PP)	transparent	1K	expansion joints, facade	n/a	n/a	n/a
Dow Corning® 794-F (discontinued)	Alcoxy Silicone (neutral)	S (*POS/PP)	white, color, black	1K	glazing, joints	n/a (*1)	o	n/a
Dow Corning® 794-S (discontinued)	Alcoxy Silicone (neutral)	S	dark colors only	1K	glazing	yellowing in field test	o	n/a
Dow Corning® 799 EU Glaze And Go (XIAMETER)	neutral	S	-	-	-	o	o	o
Dow Corning® 895	Silicone rubber	S	metal grey, black	1K	facade	o	o	o
Dow Corning® 993	Silicone rubber	S	black	2K	facade	o	o	o

(*1) sealant type color?

Legend:

o	no yellowing	no delamination
+	light yellowing	light delamination
++	strong yellowing	strong delamination
+++	---	very strong delamination

Primers (NOT TESTED): (*P) special primers except for glass & ceramics / (*PP) DC Primer P for porous substrates/ (*POS) DC Primer 1200-OS for plastics & metals

*** Test Method:** ASTM C1087 or ETAG 002 Paragraphe 5.1.4.2.5

Sealant Compatibility Chart
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Tremco illbruck

<http://www.tremco-illbruck.de/index.html>

10'2011

Sealant (Batch)	Type	Sealant (S)/ Adhesive (A)	Color	Composition	Application	EVASAFE G71	
						yellowing*	delamination*
Perennator FA101 (C 110360203DE)	Alcoxy Silicone (neutral)	S	transparent, colored, black	1K	weather sealant (window, joint)	o (*1) good results in field test for transparent type	o
JS562 (10083388/11013451)	Silicone (neutral)	S	black	2K	IGU	o (*1)	o
Proglaze 580 / JS580 (0897)	Methoxy Silicone (neutral)	S	black	1K	IGU	o (*1)	o
SG300 Spectrem 2 (4809)	Silicone	S	black	1K	weather sealant (joint, glazing, facade)	o (*1)	o
FA850	Silicone (neutral)	S	black	1K	weather sealant (facade)	o (*1)	o
Tremsil 500 / FS500 (64011433)	Alcoxy Silicone (neutral)	S	white, brown, grey, black	1K	weather sealant (joint)	o (*1)	o
illbruck SP030	Hybride	A/S	crystal clear	1K	indoor glazing	n/a	n/a
illbruck SP050	Hybride	A	white, grey, black	1K	universal adhesive	n/a	n/a

Legend:

o	no yellowing	no delamination
+	light yellowing	light delamination
++	strong yellowing	strong delamination
+++	---	very strong delamination

Annotations:

(*1) no yellowing encountered in lab test for dark colors
* **Test Method:** C.S.T.B. Guideline n° 3488 Nov.2003 annex §2.2 modified
Conditioning 24h @ 23±2°C, 50±5%rH
- series 1: UV exposure for 3 weeks
- series 2: dry heat @ 90°C for 4 weeks

KAWO (Karl Wolpers)

<http://www.kawo.de/>

tests currently in progress

Jan 2012

Sealant (Batch)	Type	Sealant (S)/ Adhesive (A)	Color	Composition	Application	EVASAFE G71	
						yellowing*	delamination*
KAWO SL 50	Acetoxy silicone (acid cure)	S	transparent	1K	glass construction (shop windows, doors)		
KAWO SL 52	modified Oxime Silicone (neutral)	S	transparent, white, colored, black	1K	weather sealant (window, joint)	++ in field test for transparent type	o
KAWO SL 53	Acetoxy silicone (acid cure)	S	transparent, white, colored, black	1K	weather sealant (window, joint); sanitary sealing	n/a	incompatible additives, delamination possible (*1)
KAWO SL 58	Alkoxy Silicone (neutral)	S	transparent	1K	weather sealant (window, joint)	n/a	n/a
KAWO SL 59	Acetoxy silicone (acid cure)	S	transparent, black	1K	aquarium; glass constructions (elevators)	n/a	n/a

(*1) not tested: Information from producer

Legend:

o	no yellowing	no delamination
+	light yellowing	light delamination
++	strong yellowing	strong delamination
+++	---	very strong delamination

* Test Method:

Incompatible Sealants and Adhesives

*The following sealants are known to be incompatible with BRIDGESTONE EVASAFE in field applications
 Not officially tested.*

March 2012

Supplier/Sealant	Type	Sealant (S)/ Adhesive (A)	Color	Composition	Application	EVASAFE G71		Occurrence of defect
						yellowing	delamination	
KAWO SL 52	modified Oxime Silicone (neutal)	S	transparent, white, colored, black	1K	weather sealant (window, joint)	++ transparent type	o	indoor glass floor
KAWO SL 53	Acetoxysilicone	S	transparent, white, colored, black	1K	weather sealant (window, joint); sanitary sealing	n/a	delamination possible	contains incompatible aliphatic additives
GE Bayer (Momentive) "Multisil"	neutral cure silicone	S	translucent, white, black, brown, grey	1K	building joints, glazing applications	yellowing in field test	o	

Legend:

o	no yellowing	no delamination
+	light yellowing	light delamination
++	strong yellowing	strong delamination
+++	---	very strong delamination