



## Silbione™ Soft Elastomers

Room Temperatures Vulcanizing (RTV) are 2-part systems which can be easily mixed and cured into soft and durable elastomers. Silicone RTV have long been used in the manufacturing of soft parts in contact with the patient because of their inherent comfort and biocompatibility.

Elkem's product line includes :

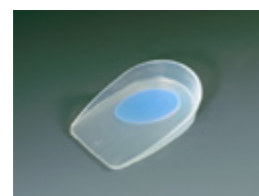
- Silbione™ RT Gels and RT Foam
- Silbione™ Soft RTV
- Silbione™ RTV used in dental impression
- BLUESIL™ RTV used in dental duplication

## Silbione™ RT Gels & RT Foam

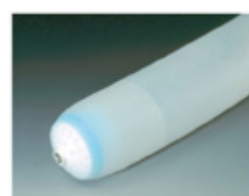
Silbione™ RT Gels have been designed to meet the specific penetration, viscoelasticity and low viscosity requirements for fashion, comfort care and pressure relief applications. For light-weight applications like external breast prostheses, Elkem offers low density gels that are 20-40% lighter than standard Gels.

Silbione™ RT Gels can be encased in Silbione™ RTV or light-weight open-cell silicone foams for a comfortable cushioning effect.

	Silbione™ products	Color	Penetration mm/10	Viscosity Pa.s	Pot Life 23°C	Density	Biocompatibility and regulatory support*
Pressure care & Cushions	RT Gel 4220 (QC)	Translucent	190	1	5' at 23°C	0,98	■
	RT Gel 4521 LD	White	190	6	60' at 23°C	0,72	■
External breast prosthesis	RT Gel 4029 ADV	Trans	275	-	-	0,98	■
	RT Gel 4023 ADV	Skin, Trans	240	0,25	7' at 70°C	0,98	■
	RT Gel 4123	Skin	230	0,6	10' at 80°C	0,98	■
	RTGel 4022	Skin	220	0,3	10' at 80°C	0,98	■
	RT Gel 4622 SLD	Skin	220	6,5	60' at 23°C	0,6	■
Foam	RT FOAM 4241	White	40 Sh00	15	Rise time 5' at 23°C Demold time 30'	0,28	■



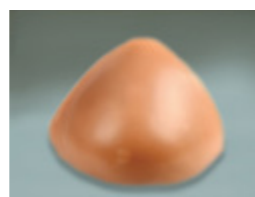
Cushioning



Prosthetic liner



Foot care



Breast forms

## Silbione™ Room Temperature Vulcanizing Elastomers (RTV)

Our Silbione™ RTV allow designers and manufacturers to :

- Create end products with a life-like feel
- Optimize comfort for the end user thanks to a wide range of hardness (starting from Shore 00 11)
- Improve the durability of the final piece with exceptional mechanical properties
- Increase their productivity with easy to mix and degas low viscosity silicone RTV

	Silbione™ products	Color	Shore A Hardness	Viscosity Pa.s	Max working time 23°C	Pot Life 23°C	Tear Strength N/mm	Biocompatibility and regulatory support*
High performance	RTV 4511 (QC)	Translucent	11 Sh00	1,2	60' (20')	60' (20')	-	■
	RTV 4522	Translucent	22 Sh00	1	100'	100'	-	■
	RTV 4530	Translucent	30 Sh00	1	100'	100'	3	■
	RTV 4404	Translucent	4	2,5	40'	45'	9	■
	RTV 4408 (QC)	Translucent	8	1,5	120' (45')	120' (45')	14	■
	RTV 4410 (QC)	Translucent	10	2	70' (10')	70' (10')	15	■
	RTV 4420 (QC)	Translucent	20	4	50' (3')	50' (3')	15	■
Balanced performance	RTV 4428	Translucent	28	10	60'	60'	20	■
	RTV 4407 (QC)	Translucent	7	1	20' (3')	-	1	■
	RTV 4417	Translucent	17	2,7	10'	10'	4	■
Lower tack & Easier to demold	RTV 4439	Translucent	39	7	25'	25'	2,5	■
	RTV 4522 HY	Translucent	22 Sh00	0,9	100'	250'	-	■
	RTV 4404 HY	Translucent	4	1,9	45'	250'	8	■
	RTV 4406 HY	Translucent	55 Sh00	1	80'	250'	1	■
Special performance	RTV 4408 CLR	Translucent	8	8,5	1h50'	-	5	■
	RTV 4410 LD	White	10	5,2	35'	Low density 0,8	6,5	■
	RTV 4418 ADH	Translucent	18	10	55'	Basecoat	-	■
	RTV 4425 ADH	Translucent	25	3	20' at 70°C	Basecoat	-	■
	RTV 4335	Pink	35	paste	2'	Kneadable	-	■
RTV 4450 CLR	Transparent	50	3	40' at 50°C	Optically clear	-	■	

\*Silbione™ grade materials have been tested for biocompatibility according to applicable ISO 10993 and/or USP Class VI standards. The typical properties listed above are not intended for use in preparing specifications. For test methods and specifications, please contact an Elkem representative. User has sole responsibility to determine product suitability for intended uses and applications.

## Silbione™ RTV for Dental Impression

Our large range of Silbione™ impression materials offers a very high level of hydrophilicity, high thixotropy but are very fluid under shear, which makes them easy to handle during use. We cover all VPS technologies ranging from kneadable putties for the first impression to light bodies for an accurate second impression.

In addition, our silicone experts are able to develop tailor-made grades matching your performance or brand requirements (adjusted kinetics, viscosity, color, etc.)



		Silbione™ reference	Color	Classification ISO 4823
Mix ratio 1:1 suitable for manual mixing (spoons from jars, or cartridges)	Putty Hard	RTV 4370	Reddish purple	Type 0
	Putty Hard, Quick	RTV 4371	Military green	
	Putty Soft	RTV 4360	Yellow	
	Putty Soft, Quick	RTV 4361	Dark blue	
	Heavy Body	RTV 4362	Antical pink	Type 1
	Heavy Body, Quick	RTV 4362 Q	Purple	
	Regular Body	RTV 4358	Purple	Type 2
	Regular Body, Quick	RTV 4358 Q	Purple	
	Light Body	RTV 4353	Bright green	Type 3
	Light Body, Quick	RTV 4348	Pumpkin orange	
	X-tra Light Body	RTV 4350	Pink	Type 3
	X-tra Light Body, Quick	RTV 4350 Q	Blue	
	Bite Registration	RTV 4388	Pink	-
	Bite Registration, Quick	RTV 4388 Q	Blue	-
Clear Bite	RTV 4365	Translucent	-	
Mix ratio 5:1 suitable for automatic mixing machines (5:1 cartridges)	Putty Hard	RTV 4770	Blue	Type 0
	Putty Hard, Quick	RTV 4770 Q	Blue	
	Hard Body	RTV 4765	Purple	Type 1
	Hard Body, Quick	RTV 4765 Q	Purple	
	Regular Body	RTV 4760	Purple	Type 2
	Regular Body, Quick	RTV 4760 Q	Purple	
	Alginate Replacement	RTV 4744	Green (mint)	Type 2

Hardness ShA	Density	Maximum working time	Total setting time	Biocompatibility and regulatory support*
70	1,55	2'00"	3'00"	■
	1,55	1'15"	2'00"	■
60	1,55	2'00"	3'00"	■
	1,55	1'15"	2'00"	■
62	1,45	2'30"	4'00"	■
62	1,45	1'30"	2'30"	■
58	1,42	2'15"	3'00"	■
58	1,42	1'15"	2'00"	■
53	1,37	2'15"	3'00"	■
48	1,37	1'30"	2'00"	■
50	1,3	2'00"	3'00"	■
50	1,3	1'15"	2'00"	■
88	1,7	45"	1'30"	■
88	1,7	20"	1'00"	■
65	1,05	45"	5'00"	■
70	1,5	2'00"	4'00"	■
70	1,5	1'15"	2'30"	■
65	1,45	2'00"	4'00"	■
65	1,45	1'15"	2'30"	■
60	1,4	2'00"	4'00"	■
60	1,4	1'15"	2'30"	■
45	1,2	1'15"	3'00"	■

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## Silbione™ RTV for Dental Duplication

RTV Silicone Elastomers are widely used in dental laboratories to duplicate dental gypsum models and feature :

- Low viscosity for easy molding and degassing
- Complete range with wide variety of hardness
- High elasticity and tear strength
- Tailor-made grades matching specific needs

Laboratory Range	Reference	Mix ratio	Color	Viscosity pa.s 23°C	Hardness ShA
Duplication pastes + test	BLUESIL™ RTV 4382	1:1	Pink	Paste	82
	BLUESIL™ RTV 4390	1:1	Blue	Paste	90
	BLUESIL™ RTV 4395	1:1	Blue	Paste	95
Duplication fluids + test	BLUESIL™ RTV 4010	1:1	Colorless	2	10
	BLUESIL™ RTV 4015	1:1	White	2	15
	BLUESIL™ RTV 4018	1:1	Green	4	18
	BLUESIL™ RTV 4020	1:1	Blue	4	20
	BLUESIL™ RTV 4022	1:1	Turquoise	8	22
	BLUESIL™ RTV 4026	1:1	Green	5	26
	BLUESIL™ RTV 4028	1:1	Green	5	28
	BLUESIL™ RTV 4032	1:1	Blue	4	32
Hydrophilic duplication fluid + test	BLUESIL™ RTV 4123	1:1	Green/Blue	6	23
Audiology + test	Silbione™ RTV 4329	1:1	Green	Thixotropic fluid	30
	Silbione™ RTV 4330	1:1	Yellow	Paste	30
	Silbione™ RTV 4340	1:1	Blue	Paste	40
	BLUESIL™ RTV 4619	1:1	Transparent	9	20

Discover BLUESIL™ Paste 4399, an extremely high viscosity product able to self sustain its shape. It does not require any crosslinking and can be reshaped into new desired structures. This product is ideal to temporary sealing, filling or corrective use on the specific downstream application.



Density	Mixing time	Maximum working time	Total setting time	Use	Biocompatibility and regulatory support*
1,85	30"	1'30"	2'15"	Hard materials used for repairing or making molds of palate contours	-
1,9	30"	2'00"	3'00"		-
1,9	30"	1'30"	3'00"		-
1,05	-	5'	< 30'	Flowable materials yielding soft elastomers in less than 30 min	-
1,05	-	5'	< 30'		-
1,1	-	5'	< 30'		-
1,1	-	5'	< 30'		-
1,05	-	5'	< 30'		-
1,1	-	5'	< 30'		-
1,2	-	5'	< 30'		-
1,1	-	5'	< 30'		-
1,2	-	5'	< 30'	Eliminates need for a wetting agent before pouring the plaster	-
1,3	NA	1'15"	2'30"		■
1,4	30"	2'00"	5'00"		■
1,5	30"	2'00"	5'00"		■
1	-	4'	< 30'		-

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## Elkem supports you

We focus on developing state-of-the-art application expertise to help our customers challenge their boundaries. At Elkem, we're more than just high quality silicone products.

We are dedicated people located around the globe committed to your success. From technical support to customized formulations and regulatory support, Elkem has the people in place when and where you need them.

## Contact us

**in**  Elkem ASA

[elkem.com](https://elkem.com)

