



# Silbione™ Medical Grade Adhesives Bonding Solutions

## Silicone Medical Adhesives for assembling and sealing medical device parts

Elkem Silicones provides medical grade silicone adhesives designed specifically for applications where high strength elastic bonds to substrates such as silicone, polyester, metals, or polyurethane are needed. Silbione™ Silicone Adhesives are solventless high strength adhesives that cure at room temperature providing a tough elastic bond. Designed for assembling and sealing medical device parts, these adhesives provide high cohesion and adhesive strength, improve productivity and efficiency through fast curing and are easy to use and apply.

### Silbione™ Silicone Adhesive product range includes:

- Silbione™ Biomedical adhesives for long-term implant applications  $\geq 30$  days in the body.
- Silbione™ MED ADH for general purpose healthcare applications.

# Silbione™ Adhesives selector table

Silbione™ Products	Long Term Implant support (≥30 days)	Short Term Implant support (≤29 days)	Substrate Adhesion Recommendation			Cure		Tack Free time, min	Tensile Strength, psi (N/mm <sup>2</sup> )	Elongation, %	Tear Strength, ppi (N/mm <sup>2</sup> )	Specific Density	Appearance	Shelf Life, months	Packaging*		
			Silicone	TPU	Metallic	1K System	2K System								Pail	Cartridge	Tube
<b>Silbione™ Biomedical products</b>																	
BIO ADH1 M200	x		▲	+	■	x (Tin-free)		7	475 (3.28)	375	50 (8.7)	1,05	Clear	12	x	x	
BIO ADH2 M213	x		▲	+	▲		x	120	700 (4.8)	450	90 (15.8)	1,06	Clear	12	x	x	
BIO ADH2 M213 SLC	x		▲	+	▲		x	720	700 (4.8)	450	90 (15.8)	1,06	Clear	12	x	x	
BIO ADH2 M213 QC	x		▲	+	▲		x	10	700 (4.8)	450	90 (15.8)	1,06	Clear	12	x	x	
<b>Silbione™ products</b>																	
MED ADH 4100		x	▲	+	▲	x		9	820 (5.7)	1090	85 (14.9)	1,09	Clear	24	x		x
MED ADH 4200		x	▲	+	■	x (Tin-free)		7	475 (3.28)	375	50 (8.7)	1,05	Clear	18	x	x	
MED ADH2 4213		x	▲	+	▲		x	120	700 (4.8)	450	90 (15.8)	1,06	Clear	12	x	x	
MED ADH2 4213 SLC		x	▲	+	▲		x	720	700 (4.8)	450	90 (15.8)	1,06	Clear	12	x	x	
MED ADH2 4213 QC		x	▲	+	▲		x	10	700 (4.8)	450	90 (15.8)	1,06	Clear	12	x	x	
MED ADH 4300		x	▲	+	▲	x		8	700 (5.4)	650	70 (12.3)	1,08	Clear	24	x		x

▲ Highly Recommended; can be used without surface treatment  
 + Good performance, may require surface treatment based on material  
 ■ Good performance, requires surface treatment based on material

\* Pails 18KG, Cartridge 175ML or 350ML, Tube 90GR

## Regulatory, Quality, & Manufacturing Support

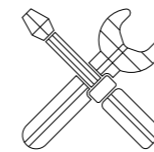
### Biocompatibility and regulatory

- Validated in accordance with ISO 10993 and USP Class VI
- Attestations and Toxicological Summaries available
- Master Access File (MAF) with FDA CRDH for Silbione™ Biomedical products

### Quality and Manufacturing Standards

- Elkem Silicones clean operation standard following GMP principles and ISO 14949 guidelines
- Certified ISO Class 8 manufacturing environment and ISO Class 7 packaging environment for Silbione™ Biomedical products
- Certified ISO 9001 manufacturing facility
- Responsible Care Management System

## Elkem Silicones technical support



### Do you need guidance on bonding to a specific substrate?

Our silicone experts provide solutions ranging from surface treatments to specific primer usage and perform adhesion testing for a fast and simple processing set up.

For detailed commercial contacts please visit our website: [elkem.com](http://elkem.com)

The information contained in this document is given in good faith based on our current knowledge. It is only an indication and is in no way binding, particularly as regards infringement of or prejudice to third party rights through the use of our products. Elkem Silicones guarantees that its products comply with its sales specifications. This information must on no account be used as a substitute for necessary prior tests which alone can ensure that a product is suitable for given use. Determination of the suitability of product for the uses and applications contemplated by users and others shall be the sole responsibility of users. Users are responsible for ensuring compliance with local legislation and for obtaining the necessary certifications and authorizations. Users are requested to check that they are in possession of the latest version of this document and Elkem Silicones is at their disposal to supply any additional information.