

Description **Silbione MED ADH 4100 RTV** is a single component silicone adhesive designed for medical applications where a high strength elastic bond of silicone to silicone is needed. **Silbione® MED ADH 4100 RTV** cures at room temperature by exposure to ambient moisture to form a tough, elastic bond. During curing, acetic acid is released as a by-product. **Silbione® MED ADH 4100 RTV** contains no solvents or plasticizers and is designed to exhibit high thixotropy in thin sections, but self level in thick sections.

Examples of applications

- Medical (<30 day implantable)
- Bonding silicone substrates to other silicone substrates

Key benefits

- Very high bond strength
- Cures at room temperature
- Ready-to-use, easy to apply

Typical properties

Properties	Value
Appearance	Colorless, clear to translucent
Tack Free Time, minutes	9
Cured 72 hrs./ 25°C	
Durometer, Shore A	29
Tensile Strength, psi (N/mm ²)	820 (5.7)
Elongation, %	780
Tear Strength, ppi (N/mm)	85 (14.9)
Cohesive/ Adhesive Strength, ppi (N/mm)	30 (5.3)
Specific Gravity	1.09
Cytotoxicity	Non-toxic

SILBIONE MED ADH 4100

Technical Data Sheet n° 425-V2 – 2018/08/31

Please note: The typical properties are not intended for use in preparing specifications. Please contact our local Sales Department for assistance in writing specifications.

Instruction of use	Silbione MED ADH 4100 RTV is a ready to use product. Surfaces to be bonded with adhesive should be pre-scrubbed thoroughly with a clean, soft sponge or soft-bristled brush in hot water-soap solution to remove possible surface contaminants. Do not use synthetic detergents or oil-based soaps. Rinse with copious amounts of hot water, then rinse with distilled water and dry thoroughly. Apply Silbione MED ADH 4100 RTV adhesive and then mate the surfaces together with light pressure. A bond thickness of 0.010" minimum is recommended to achieve optimum strength. Partial cure is typically achieved in 20 minutes. Ultimate cure and optimal physical properties will be achieved after 24-120 hours at 25°C and ambient moisture.
Packaging	<ul style="list-style-type: none">• SILBIONE MED ADH 4100 is available in<ul style="list-style-type: none">○ Pail of 18 KG (39.69 LB)○ Piece of 1 PC○ Box of 48 PC
Storage and shelf life	When stored in its original packaging: SILBIONE MED ADH 4100 may be stored for up to 24 months from its date of manufacturing. Comply with the storage instructions and expiry date marked on the packaging. Beyond this date, Elkem Silicones no longer guarantees that the product meets the sales specifications.
Regulation	Please consult your local ELKEM SILICONES sales office.
Limitations	Please consult your local ELKEM SILICONES sales office.
Safety	Please consult the Safety Data Sheet of: SILBIONE MED ADH 4100

Visit our website www.silicones.elkem.com

Warning to the users

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