

## INSTRUCTIONS FOR USING SILVERFIL ARGENTUM CAPSULES



The product you are about to use is the world's first pure silver amalgam with no excess mercury.  
:: **SILVERFIL ARGENTUM** ::

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### COMPOSITION

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Silverfil Argentum is a mixture of reactive silver particles and a partially amalgamated silver-mercury ( $\text{Ag}_3\text{Hg}_2$ ) powder. Silverfil Argentum does not contain any tin or copper.

Total Silver Content : 74%  
Total Mercury Content : 26%

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### PACKAGING

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Silverfil Argentum is dispensed in self-activating capsules, packaged in boxes of 50 capsules. Silverfil Argentum is available in three colour-coded spill sizes (1, 2 and 3 spill).

<b>Dispensing ratios:</b>	<u>1 spill</u>	<u>2 spill</u>	<u>3 spill</u>
Powder	0.370 mg	0.500 mg	0.730 mg
Mercury	0.600 mg	0.800 mg	1.200 mg
Powder/Mercury Ratio	1: 1.62	1: 1.57	1: 1.64
Capsule Colour	Blue	Green	Yellow

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### CAPSULE ACTIVATION

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1. Affix the self-activating capsule into the amalgamator clips by slightly spreading the amalgamator clips and sliding the capsule between the clips.
2. Ensure that the capsule is fitted securely in the clips to avoid it from dislodging during trituration. Close the protective lid of the amalgamator before trituration.
3. See below for the recommended mixing times using different amalgamators.

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### TRITURATION / MIXING TIME

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Silverfil Argentum capsules require a very short mixing time due to the material's high reactivity with mercury. Please follow the corresponding mixing times in accordance with the type of your amalgamator. Mixing with the correct timer setting will result in a lustrous, homogenous amalgam mass with a smooth texture. A dry and grainy mix indicates that the trituration time is HIGHER than required. Shorter mixing times may not allow all the mercury to mix with the powder completely.

### RECOMMENDED AMALGAMATOR SETTINGS FOR SILVERFIL ARGENTUM

<b>Amalgamator</b>	<b>1 spill setting</b>	<b>2 spill setting</b>	<b>3 spill setting</b>
Silverfil Automat (coming soon)	3 seconds	3-4 seconds	4-5 seconds
SDI Ultramat*	3 seconds	3-4 seconds	4-5 seconds
Vivadent Silamat*	3 seconds	3-4 seconds	4-5 seconds
Degussa Duomat*	3 seconds	3-4 seconds	4-5 seconds
Dentomat* + Silverfil Adaptor**	4-5 seconds	5-7 seconds	7-8 seconds

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### CONDENSATION / PACKING

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4. After trituration, remove the capsule from the holder clip of the amalgamator.
5. Tap the base of the capsule on a firm surface to dislodge and collect the material at the base.
6. Open the capsule by holding the base firmly and unscrewing the colour cap.
7. Remove the amalgam mix from the base of the capsule.
8. Insertion of the amalgam into the tooth cavity should commence immediately after trituration.

## INSTRUCTIONS FOR USING SILVERFIL ARGENTUM CAPSULES



- Standard techniques used in handling amalgams may be employed.
- Smooth pluggers are recommended as there is no excess mercury that can be brought to the surface.
- Mechanical condensation with smooth pluggers may also be used.
- If an additional mix is required, Silverfil Argentum can be easily condensed over the previous mix without any layering effect.

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### CARVING AND FINISHING

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- Trimming and carving can be commenced immediately after condensation has been completed.
- As there is no excess mercury, burnishing is recommended for a better adaptation of the margins of the filling against the tooth surface.
- Polishing of the restoration can be done after 24 hours. A good luster can be obtained by just using silicone rubber and water.

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### STORAGE & HANDLING PRECAUTIONS

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- Store in a cool & dry environment, away from direct sunlight and below 25 °C.
- Capsules contain pouched mercury. Do not open capsules or remove mercury pouch from capsule prior to trituration as mercury pouch may puncture, causing spillage.
- **Dispose of used capsules in accordance with national regulations.**

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### CAUTION / WARNINGS

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- Federal Law restricts this device to sale by or on the order of a Dentist.
- Capsules contain pouched mercury. Do not open capsules before trituration.

#### **In case of Mercury spillage:**

Mercury presents a health hazard if incorrectly handled. Spillages of mercury should be removed immediately, including from places which are difficult to access. Use a plastic syringe to draw it up. Smaller quantities can be covered by sulfur powder and removed. Avoid inhalation of the vapour.

- Silverfil Argentum conforms to ISO 1559: 1995 & contains mercury that conforms to ISO 24234: 2004

\*SDI Ultramat, Vivadent Silamat, Desgussa Duomat and Degussa Dentomat are not registered trademarks of Silverfil Dental Products.

\*\*The Silverfil Adaptor is a plastic capsule holder that can be affixed to the Degussa Dentomat\*, making it capable of mixing pre-dosed amalgam capsules. Contact your local distributor to order a Silverfil Adaptor or get in touch with us directly at [contact@silverfil dental.com](mailto:contact@silverfil dental.com).