



SERPI
Systems

a **Fiberlock** brand

Asbestos Abatement Products

SerpiMastic Heavy Duty Asbestos Encasement Coating

Benefits

- Ultra durable
- Impact resistant
- Weather and UV resistant
- Interior and exterior application
- High solids and high build formula
- Easy one coat application
- Cost effective
- London Underground approved*

Product Description

SerpiMastic is a water-based, high solids, high performance mastic coating. Two viscosity grades are available: sprayable and trowelable. SerpiMastic dries to a tough, weather-resistant protective coating that provides high impact protection for asbestos containing materials including: cement asbestos board, thermal insulation on boilers, pipes and ducts, and other substrates that need an ultra-durable mastic coating.

Features

- Coats friable insulating materials to protect against physical damage and to seal in potentially hazardous fibers such as asbestos and other mineral fibers.
- Impact resistance of over 160 PSI (11 bar); practically indestructible.

- Exhibits excellent chemical resistance to help seal insulating materials and protect against the penetration of flammable liquids.
- Repairs damaged insulation. SerpiMastic adheres tenaciously to most insulation materials as well as other common construction surfaces.
- Water-based, non-toxic
- Can be used indoors and outdoors
- Impervious to weather and U.V. rays
- Ideal for encapsulating asbestos cement board roofing material.

Testing/Certification

Non-flammable when wet and Class "0" when dry. BS 476 Parts 6 (pass) & 7 (Class 1), BS 6853 Annex B.2: R-value .49 (#2418), R-value .30 (#2419); BS 6853 D8.4: Ao (On) 2.17 and Ao (Off) 2.98 (for #2418) and Ao (On) 1.92 and Ao (Off) 2.63 (#2419), ASTM E119, ASTM D-968, ASTM D-3359, ASTM D-1653, ASTM D-2794 and ASTM E84. UL Classified.

Application and Equipment Recommendations

Please Note: Before performing any repairs to asbestos containing material, contact your local authorities to ensure compliance with local regulations.

1. **Surface Preparation:** Surfaces to be protected should be free

of excessive loose dirt or oil. SerpiMastic will bond tightly to virtually any surface.

2. **Temperature:** Recommended storage and application temperatures are between 40°F and 90°F (4°C and 32°C). Do not store or apply in freezing temperatures. If frozen, thaw completely before use.
3. **Coverage:** Dry film thickness applications between 30 mils (.75 mm) and 63 mils (1.6 mm) are typical depending on substrate. NOTE: For London Underground applications, maximum dry film thickness is 39 mils (1mm). At this dry film thickness, one litre will cover .62m² (6.66 ft²).
4. **Drying Time:** Under normal conditions, SerpiMastic dries to touch in 2 hours. Completely dry in 48 hours. High humidity and/or thicker application may retard drying.
5. **Thinning:** Not required or recommended.
6. **Equipment:** SerpiMastic Sprayable can be applied with a brush, roller or airless spray equipment. SerpiMastic Trowelable can be applied with a trowel or brush. The trowel can be any ordinary mason's trowel or similar spreading tool.

*Must be applied at an application rate not to exceed a dry film thickness of 1mm. See application instructions and installation notes for complete details on London Underground applications.

Spray Application (applies to SerpiMastic Sprayable version only)

Care should be exercised in selecting the proper equipment. All wetted parts of the spray pump should be specified to resist abrasion. The use of high density polyethylene seals in place of the standard PTFE seals will greatly extend the service life of the pump and reduce downtime.

The following represents a typical unit suitable for use with this product:

Pump Set-Up

- Titan Impact 1140
- Tip Size: 527
- Gun: LX 80
- Hose Diameter and Length: 50FT (15.2m) 3/8 hose with 1/4 whip
- Pressure: 2800-3000 PSI (193 to 207 bar)
- Special Considerations: Remove all filters to facilitate spraying

Application

- Thorough mixing immediately prior to application will help the product “flow” better.
- When applying with a sprayer, wear a NIOSH approved respirator with any R, P, N or HE filter.
- Remove inlet filter strainer.
- Do not use a siphon hose

Physical Properties

Color	Off white
Weight, lb/gal (kg/L)	10.8 (1.3)
Solids Content	73%
Dry Coverage, ft ² /gal (m ² /L)	18.5 (0.45)*
Flash Point	None
Limiting Oxygen Index	>40
Flame Spread (ASTM E84)	<10
Smoke Developed (ASTM E84)	<30
K Factor, Apparent Thermal Conductivity, @141°F @90°C	4.1 BTU in./hr ft 2°F 0.6 W/M.K

*Based on 63 mils (1.6 mm) dry coating.

- assembly, immerse pump directly into material (in high temperature “float” water on top to prevent skinning over).
- Remove outlet filter and filter support.
 - Set pressure to 2800 psi (193 bar) tip pressure.
 - 100 ft of 3/8 in. (30.4 m of 9.5 mm) airless hose is the maximum length.
 - Minimum tip of .027 in. (0.69 mm), but a .029 in. (0.74 mm) or .031 in. (0.79 mm) can also be used for more production. Choose fan width according to size of application [i.e. 6 in. (152 mm) pipe use a 327 tip, 12 in. (305 mm) pipe use a 627 tip.
 - Spray 12-14 inches from surface, use cross hatch pattern.

Important Installation Notes London Underground Applications

SerpiMastic is suitable for use in non-rolling stock applications such as underground stations and tunnels. Total application dry film thickness must not exceed 39 mils (1mm). Contact Fiberlock Technologies if you have any questions related to application in the London Underground system.

Drying Time and Coating Thickness

SerpiMastic is a water-based coating material. As noted, coating

application thickness, temperature and humidity will affect drying rate. Drying time can be minimized by applying several thinner coats, with 24 hours drying time between each coat. Sprayable coating can be applied in single applications up to 188 mils (4.8 mm). Thicker coats can be built up by allowing 24 hours drying time between application. Trowelable coating can be applied in a single application up to 500 mils (12.7 mm) thick without cracking or shrinking.

Use of Lagging Cloth

SerpiMastic is a strong, resilient coating. In most cases, the use of lagging cloth is not necessary. Repairs of large damaged areas, weak insulation or areas requiring greater mechanical strength may require the use of this cloth. Please refer to the data sheet of Fiberlock’s Lag Kloth.

Restoring Damaged Insulation

SerpiMastic is not an insulating material. Insulation that has been removed or deeply damaged should be replaced with a suitable insulating material and then covered with SerpiMastic.

Availability

SerpiMastic is available through authorized Fiberlock distributors.

Warranty

All statements, technical information and recommendations contained herein are based on tests we believe to be reliable.

However, since the conditions of use and application are beyond our control, Fiberlock Technologies shall not be liable for any damage, direct or consequential, resulting from the use of this material or design. Fiberlock Technologies only warranty shall be to replace any of its products found to be defective.

Technical Support

Fiberlock provides technical support for all of its products, including SerpiMastic. Call 800-342-3755 or 00+1+978-623-9987 for assistance in product selections. We provide engineering analysis for unique asbestos abatement applications. Safety Data Sheets are also available.



Product Availability

SerpiMastic is available through authorized Fiberlock distributors in the following quantities:

Description	Part No.	Size
Heavy Duty Sprayable	2419-5 (US), 2419-10L (UK/EU)	5 Gallons (US), 10L Pails (UK/EU)
Heavy Duty Trowelable	2418-5 (US), 2418-10L (UK/EU)	5 Gallons (US), 10L Pails (UK/EU)

For Technical Assistance please call 800.342.3755 or 00+1+978-623-9987

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use of this product are beyond our control. Neither Fiberlock Technologies, Inc., nor its agents shall be responsible for the use or results of use of this product or any injury, loss or damage, direct or consequential. We recommend that the prospective user determine the suitability of this product for each specific project and for the health and safety of personnel working in the area.

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