

A-103 Mastic

(Waterborne Chemical Resistant)

Specification Data Sheet

TDS Version 060830

BASIC USE

A-103 Mastic is an asphaltic, fibrous, chemically resistant trowel-consistency material. It is especially recommended as an acid-resisting coating applied between the brickwork and outer metal shell beneath the hard setting acid resisting mortars which bond the brickwork in acid towers.

A-103 Mastic is also recommended with acid brick and mortar as a protective media for many miscellaneous constructions where acid and caustic resistance is required.

A-103 Mastic has chemical resistance to many acids, alkalis and chemicals including the following:

- Acetic Acid
- 5% Bleach
- Boric Acid
- Caustic Acid
- Chlorine Water
- Chromic Acid
- Concentrated Nitric Acid (below 160°F)
- Hydrochloric Acid
- Phosphoric Acid
- Sodium Chloride
- Sulphuric Acid

PRODUCT DESCRIPTION

A-103 Mastic sets up fast to a firm, but elastic film, having resistance to Caustic Soda, Concentrated Hydrochloric Acid, and Concentrated Sulphuric Acid. A-103 Mastic also has resistance to Nitric Acid at room temperatures. At elevated temperatures, we do not recommend the use of A-103 when in contact with Concentrated Nitric Acid.

The shell structure of acid towers are affected by exterior temperature changes causing expansion and contraction. The brickwork is affected only slightly by these temperature variances. Consequently, the A-103 Mastic has decided advantages over hard drying mortars in that its flexibility decreases the stress and strain placed on the brick mortar joints on the inside of the tower.

APPLICATION

A. Remove all foreign matter, dust, rust, oils, etc., with appropriate cleaning method leaving no cleaning residue on the freshly prepared surface.

B. A minimum thickness of 1/8" (3.2mm) is recommended. Apply A-103 Mastic using a 1/4" V-notched trowel to a clean, dry surface. Use a straight trowel to flatten and achieve a uniform thickness while still wet and pliable. (Or apply initially with a straight trowel using a gauge to ensure 1/8" thickness is maintained)

C. An average coverage rate of 12 sq. ft. /gallon is recommended. Higher builds will withstand longer term acid exposure. Coverage rates up to 4 sq. ft. /gallon are acceptable with an associated longer drying time.

D. Drying times are dependent on film thickness and ambient temperatures.

E. When used on floors under brick, A-103 Mastic must be allowed to fully cure prior to installation of brick.

F. If called for in the specification; Teflon Sheet must be rolled onto the still tacky A-103 Mastic and smoothed out to remove air pockets where possible. All seams must overlap by 100 mm and must be bonded with very thin A-103 mastic inside overlap and thinly covered 20mm wide above overlaps. Upper sheet must overlap lower sheet. Allow extra time for membrane to cure before bricking over top of Teflon and A-103 Mastic. Teflon Sheet also available at Alphatherm. For specific application concerns not addressed here, please consult Alphatherm Inc.

PRECAUTIONS

CAUTION! COMBUSTIBLE!

Keep away from heat and open flame. Use with adequate ventilation. Avoid prolonged breathing of vapor. Please review SDS prior to use. Keep out of reach of children

AVAILABILITY AND COST

A-103 Mastic is available from stock in Canada and USA. For pricing and current inventory levels, please contact Alphatherm Inc. Tel : (905)-948-9949
Website: www.alphatherm.com
Email at: alphatherm@ilap.com

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PHYSICAL PROPERTIES

| | |
|-----------------|---|
| Color | Black |
| Base | Processed asphalt |
| Solids | 75% approximately |
| Drying Time | A thin skin forms in approximately ninety (90) minutes at 77°F; a ¼" thick film will set in approximately 48 hours at 77°F Over |
| Flash Point | Over 75°F (T.C.C.) |
| Weight | 9.5 lbs. per gallon |
| Solvent | Aromatic and aliphatic |
| Softening Point | Dried mastic will soften above 200°F |
| Cleaning | Mineral spirits and/or xylol |

COVERAGE

| | |
|----------------|----------------------------|
| Film Thickness | ½" - 50 sq. ft. per gallon |
| | ¼" - 25 sq. ft. per gallon |
| | ⅛" - 12 sq. ft. per gallon |
| | ¼" - 6 sq. ft. per gallon |
| | ⅜" - 4 sq. ft. per gallon |

TECHNICAL SERVICE

Alphatherm Inc. representatives are available to assist you in selecting appropriate ancillary products and to provide application instructions or to conduct jobsite inspections. For further assistance please contact us at 905-948-9949 or email us at alphatherm@ilap.com. www.alphatherm.com.

WARRANTY

Alphatherm Inc. warrants its products to be free of defects. Under this warranty, we will provide, at no charge, replacement materials for, or refund the purchase price of, any product proven to be defective when used in strict accordance with our published recommendations and in applications considered by us as suitable for this product. The determination of eligibility for this warranty, or the choice of remedy available under this warranty, shall be made in our sole discretion and any decisions made by Alphatherm Inc. shall be final. This warranty is in lieu of any and all other warranties, expressed or implied, including but not limited to a warranty of merchantability or fitness for a particular purpose and in no case will Alphatherm Inc. be liable for damages other than those expressly stated in this warranty, including but not limited to incidental or consequential damages.

MANUFACTURER

This product is manufactured exclusively for ALPHATHERM INC.

Under License from:

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Canada
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Website: www.alphatherm.com