

CoatOSil™ M120XB Resin Solution

Test

Product Description

A Hard Methyl Silicone Resin in solution.

Key Features and Typical Benefits

High heat resistance, corrosion resistance, anti-stick.

Potential Applications

Binder for heat-resistant anticorrosion finishes and heat stable anti-stick finishes.

Typical Physical Properties

Approximately 50% in xylene (technical: butanol = 43:7)

| Property | Value |
|--------------------------------|---------------|
| Viscosity at 23° C, DIN 53 015 | 40 - 60 mPa.s |
| Actives | 50% |
| Iodine color, DIN 6162 | Max. 2 |

Typical properties are average data and are not to be used as or to develop specifications.

General Considerations for Use

Anticorrosion Coatings

Anticorrosion coatings based on CoatOSil M120XB Resin Solution may be considered for coating objects subjected to very high temperatures, such as waste gas stacks, blast furnace gas pipes, blast furnaces, cracking plants, etc. Optimum corrosion resistance and heat stability on steel are only achieved on a sandblasted substrate. This pretreatment is needed even if the material is new.

Coating Systems

For all objects exposed simultaneously to the weather and very high temperatures, one or two base coats and one topcoat, giving a total dry film thickness of 60-80 µm, are needed. Consider systems in which the primers are formulated on the basis of grades of CoatOSil Resin P and the topcoat on the basis of CoatOSil M120XB Resin Solution. With objects that are not exposed to outdoor conditions or to an aggressive atmosphere, a one-coat finish may be sufficient.

Film Formation

Coatings based on CoatOSil M120XB Resin Solution can dry at room temperature and have excellent weather stability and provide good corrosion protection. However, resistance to oils, greases and gasoline typically is only achieved after exposure for about one hour to temperatures above 150° C.

Pigments / Heat Resistance

Metal powders, such as aluminum bronze or micaceous iron oxide, may be considered for the topcoats. For primers pigmented with zinc dust, consider the use of CoatOSil Resin P 851. Topcoats based on CoatOSil M120XB Resin Solution and pigmented with aluminum bronze or micaceous iron oxide typically remain stable for about 3 – 6 months. If aluminum bronze or micaceous iron oxide is used, a long-term thermal stability of up to 600° C can be reached. Coatings containing micaceous iron oxide can be tinted by adding suitable heat-stable inorganic color pigments.

Release Coatings

Anti-stick coatings with CoatOSil M120XB Resin Solution have excellent release properties and, therefore, may be considered for use on the linings of mills, silos, pipelines, injection molds or vulcanizing molds. Anti-stick coatings based on CoatOSil M120XB Resin Solution may be considered for use in the foodstuff sector for the finishing of baking tins and baking trays.

Compatibility

Compatibility typically exists only with straight methyl silicone resins or oils.

Packaging / Containers

Currently available in 1,000 kg totes, 200 kg steel drums, and 50 kg pails.

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at www.momentive.com or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

Contact Information

Email

commercial.services@momentive.com

Telephone

| Americas | Latin America | EMEAI- Europe, Middle East, Africa & India | ASIA PACIFIC |
|--------------------------------|--|--|--|
| +1 800 295 2392 Toll free* | Brazil +55 11 4534 9650 | Europe +390510924300 | China 800 820 0202 |
| +704 805 6946 Direct Number | Direct Number | Direct number | Toll free +86 21 3860 4892 Direct number |
| *All American countries | Mexico +52 55 2169 7670 Direct Number | India, Middle East & Africa + 91 44 71212207 Direct number* | Japan +81 3 5544 3111 Direct number |
| | | *All Middle Eastern countries, Africa, India, | Korea +82 2 6201 4600 |

For literature and technical assistance, visit our website at: www.momentive.com

DISCLAIMER:

THE MATERIALS, PRODUCTS AND SERVICES OF MOMENTIVE PERFORMANCE MATERIALS INC. AND ITS SUBSIDIARIES AND AFFILIATES (COLLECTIVELY “SUPPLIER”), ARE SOLD SUBJECT TO SUPPLIER’S STANDARD CONDITIONS OF SALE, WHICH ARE INCLUDED IN THE APPLICABLE DISTRIBUTOR OR OTHER SALES AGREEMENT, PRINTED ON THE BACK OF ORDER ACKNOWLEDGMENTS AND INVOICES, AND AVAILABLE UPON REQUEST. ALTHOUGH ANY INFORMATION, RECOMMENDATIONS, OR ADVICE CONTAINED HEREIN IS GIVEN IN GOOD FAITH, SUPPLIER MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (i) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING ITS PRODUCTS, MATERIALS, SERVICES, RECOMMENDATIONS OR ADVICE. EXCEPT AS PROVIDED IN SUPPLIER’S STANDARD CONDITIONS OF SALE, SUPPLIER AND ITS REPRESENTATIVES SHALL IN NO EVENT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS OR SERVICES DESCRIBED HEREIN. Each user bears full responsibility for making its own determination as to the suitability of Supplier’s materials, services,

recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating Supplier's products, materials, or services will be safe and suitable for use under end-use conditions. Nothing in this or any other document, nor any oral recommendation or advice, shall be deemed to alter, vary, supersede, or waive any provision of Supplier's standard Conditions of Sale or this Disclaimer, unless any such modification is specifically agreed to in a writing signed by Supplier. No statement contained herein concerning a possible or suggested use of any material, product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of Supplier covering such use or design, or as a recommendation for the use of such material, product, service or design in the infringement of any patent or other intellectual property right.

The use of the "™" symbol designates registered or unregistered trademarks of Momentive Performance Materials Inc. or its affiliated companies. Momentive and the Momentive logo are trademarks of Momentive Performance Materials Inc.