

CoatOSil™ M120XB Resin Solution

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

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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.

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