

CoatOSil™ P905 Silicone Emulsion

Product Description

CoatOSil P905 is a phenyl-methyl silicone resin emulsion that can be used as sole or co-binder to formulate waterborne high-temperature resistant coatings. Coating can be dried at room temperature but needs thermal curing to achieve maximum performance benefits. Formulations using CoatOSil P905 along with suitable pigments and fillers, such as metal powder/flakes, can achieve thermal resistance up to 600 °C.

Key Features and Typical Benefits

- High thermal resistance
- Excellent adhesion
- Excellent corrosion resistance

Typical Physical Properties

Appearance	Milky white emulsion
Solids Content	~50 wt%
Viscosity at 25 °C (Brookfield spindle 64, 100 rpm)	~3000 cP
pH	~7
Specific Gravity at 25 °C	~1.09

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

Potential Applications

- Coatings for automotive muffler and exhaust pipes
- Coatings for home appliances and ovens
- Coatings for industrial vessels and pipes

General Considerations for Use

CoatOSil P905 should be added under low-shear mixing in the letdown stage. Coatings with CoatOSil P905 should be cured between 150-250 °C for 30-60 mins to achieve desired curing. Compatibility with organic resins and storage stability should be tested and optimized in target formulation. Due to versatile applications potential, usage is typically determined by the customer's specific formulations and requirements.

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 MyMomentive™ Order Management Site. 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.

Customer Service Centers

For additional information, please contact our Customer Service Team

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