

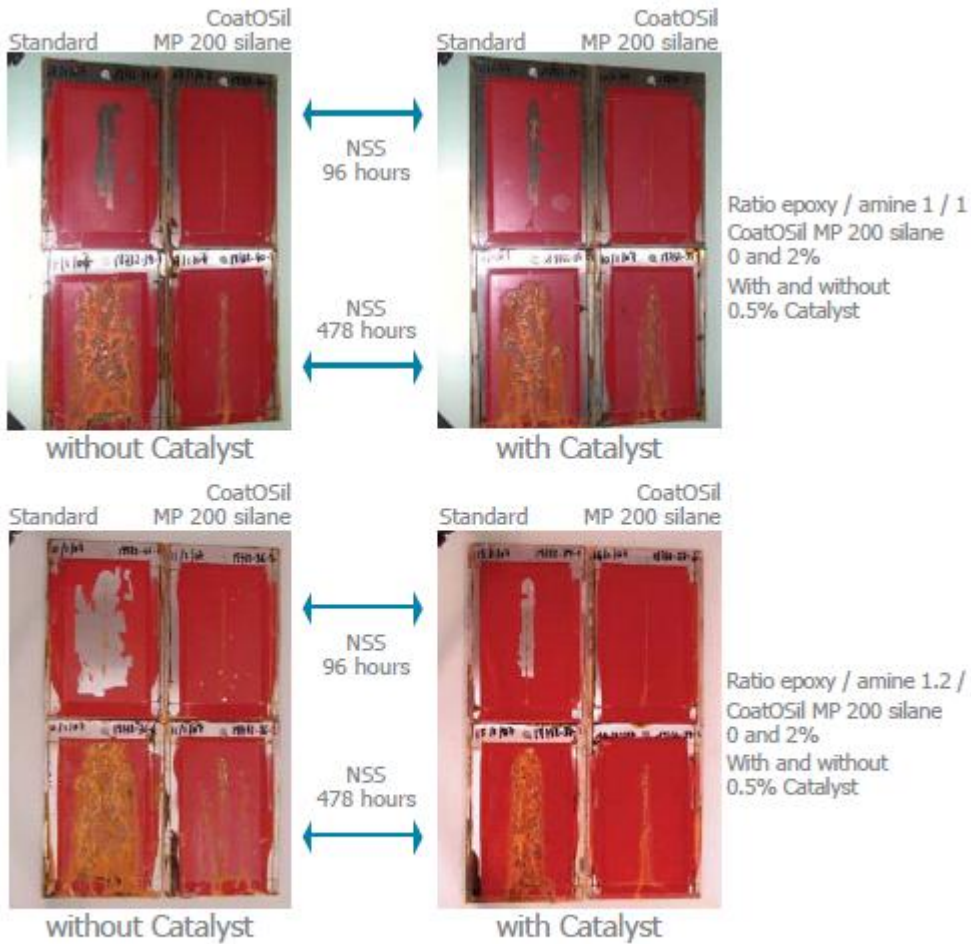
CoatOSil™ MP 200

CoatOSil* MP 200

Description

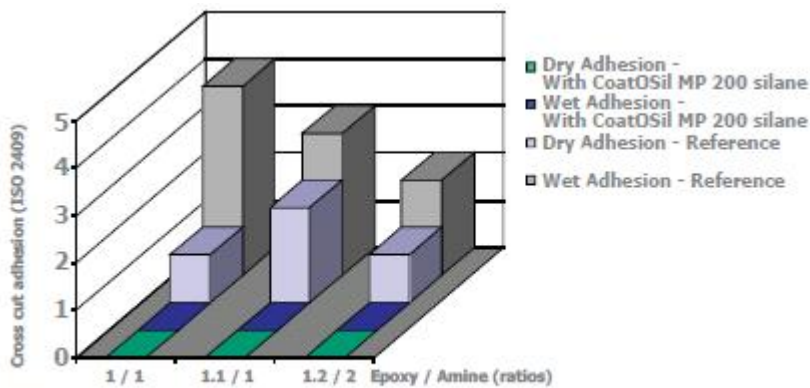
CoatOSil MP 200 silane is an epoxy functional silane oligomer that may be considered for use as an adhesion promoter or binder in polysulfide, urethane, epoxy and acrylic caulks, sealants, adhesives and coatings. The product is a polyfunctional structure bearing gamma-glycidoxy groups, which is an excellent candidate to consider to reduce emissions of methanol upon hydrolysis of the material as compared with monomeric epoxy silanes. It typically aids adhesion promotion and crosslinking of water borne or solvent based coatings as well as dispersion of metallic pigments in water borne systems.

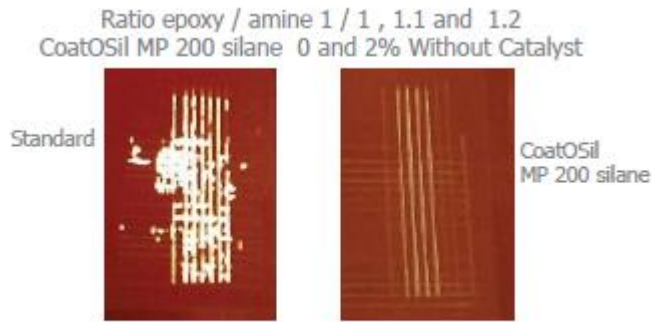
Corrosion Resistance - Neutral Salt Spray



CoatOSil MP 200 silane can help significantly increase the corrosion resistance of 2K HS epoxy primer. It can lower the impact of epoxy/amine ratio and catalyst content.

Cross Cut Adhesion ISO 2409-1972





CoatOSil MP 200 silane can help significantly increase the adhesion performances of 2K HS epoxy primer.

Key Features and Benefits

The gamma-glycidoxy propyl epoxide ring available in CoatOSil MP 200 silane can react with many different organic functionalities, while the alkoxy silane groups still available on the oligomeric structure typically bond strongly to inorganic substrates. The hydrolytic stability of CoatOSil MP 200 silane can help provide better shelf life than normal monomeric silanes, thus providing better durability in solvent borne systems. Specific hydrolysis conditions can be applied to hydrolyze the material so CoatOSil MP 200 silane may be considered for use in waterborne systems.

2K HS Epoxy Paint Pigment Paste Preparation

Red Iron Oxide Dispersion Paste	
Material	Weight (parts)
Epoxy Resin (EEW; 3.8-4.25 mmole/g)	26.91
Antifoam	0.41
Dispersing Agent	0.54
Mix first part prior to pigment dispersion – introduce under dispersion	
Red Iron Oxide	26.16
Anticorrosive Pigment	5.58
Kaolin Clay	11.77
China Clay	11.77

Barium Sulfate	7.68
Dispersion 1500 rpm / 30 minutes, max. temp. 40°C – Hegmann Gauge = 5	
Total	81.38

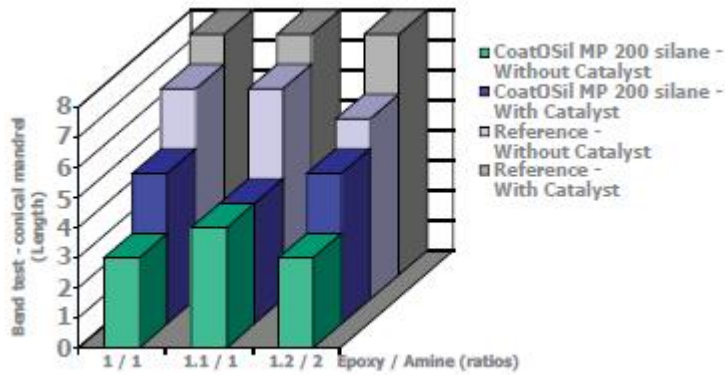
2K HS Epoxy Paint Paint Formulation

High Solid Epoxy Paint	
Material	Weight (parts)
Red Iron Oxide Dispersion Paste	81.38
Epoxy Resin (EEW; 3.8-4.25 mmole/g)	2.75 to 4.75
CoatOSil MP 200 silane	0, 1 or 2
Mix first part – introduce under dispersion	
Methyl Ethyl Ketone	3.12
1 Methoxy-2-propanol	0.78 to 1.56
Xylene	0 to 1.53
Part A: Mixing 600 rpm	
Curing Agent	7.66 to 9.47
Ratio (Epoxy Resin + CoatOSil MP 200 silane) / Amine: 1, 1.1 or 1.2	
Amine Catalyst	0 or 0.5

Typical data are average data and actual values may vary. Typical data shall not be used as product specifications.

Product formulations are included as illustrative examples only. Momentive makes no representation or warranty of any kind with respect to any such formulations, including, without limitation, concerning the efficiency or safety of any product manufactured using such formulations.

Bend Test - Conical Mandrel ISO 6860-1984



Ratio epoxy / amine 1 / 1 to 1.2
CoatOSil MP 200 silane 0 and 2% With or without 0.5% Catalyst



CoatOSil MP 200 silane can help improve bending resistance of 2K HS epoxy primer. It can minimize impact of accelerating catalyst on bending resistance.

Typical Physical Properties

Properties	Typical Impact of CoatOSil MP 200 silane
Dry adhesion (cross cut)	Improved
Wet adhesion; (cross cut after immersion test)	Improved
Hardness	No impact
Impact resistance (Reverse)	Improved
Bending resistance (Conical mandrel)	Improved
Corrosion resistance (NSS)	Improved

Patent Status

Standard copy to come

Product Safety, Handling and Storage

Standard copy to come

Limitations

Standard copy to come

Contact Information

Email

commercial.services@momentive.com

Telephone

Americas

+1 800 295 2392

Toll free*

+704 805 6946

Direct Number

*All American
countries

Latin America

Brazil

+55 11 4534 9650

Direct Number

Mexico

+52 55 2169 7670

Direct Number

EMEAI- Europe, Middle East, Africa & India

Europe

+390510924300

Direct number

India, Middle East & Africa

+ 91 44 71212207

Direct number*

*All Middle Eastern
countries, Africa, India,

ASIA PACIFIC

China

800 820 0202

Toll free

+86 21 3860 4892

Direct number

Japan

+81 3 5544 3111

Direct number

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.

* CoatOSil™は Momentive Performance Materials Inc. の商標です。

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.