

Application Guidance

Applications

MS 730, 7301, 7302	Coil coatings
MS 780, 7801, 7802	Industrial anticorrosive coatings
MS 775, 795	General industrial coatings Heavy duty coatings

Systems

Waterborne system	2K & 1K Epoxy resin; 1K Epoxy ester; 1K Amino baking coatings, 2K Phenolic resin;
Solvent system	Applicable to the most systems Except acrylic resin systems

Coil Coatings

Products	Salt Spray Test	Acid and alkali Resistant	MEK Resistant
MS 730	★ ★ ★	★ ★ ★	★ ★ ★
MS 7301	★ ★ ★ ★	★ ★ ★	★ ★ ★ ★
MS 7302	★ ★ ★ ★ ★	★ ★ ★	★ ★ ★

General Industrial Coatings

Products	Salt Spray Test	Acid and alkali Resistant
MS 775	★ ★ ★	★ ★ ★
MS 795	★ ★	★ ★
MS 780	★ ★ ★	★ ★ ★
MS 7801	★ ★ ★ ★	★ ★ ★
MS 7802	★ ★ ★ ★ ★	★ ★ ★



Professional Manufacturer Of New Silica Materials

Wuxi HHC New Material Co., Ltd

Add: #3-501, No.21 Zhihui Road, Wuxi, Jiangsu, China
Tel:+86 180 1246 9517 E-mail: sale@hhc-silica.com



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www.hhc-silica.com

Silica Anti-corrosion Pigments

The new generation of anti-corrosion pigments with efficient, non-toxic, no heavy metal ion-exchanged silica is the smart choice to respond to the high requirements for environmental protection, Through thousands of testing and experiments, HHC anti-corrosion pigments have been proven to have great compatibility with water-based coating systems with efficient and lasting anti-corrosion ability, and product performance and quality have reached a world-class level!



Advantages

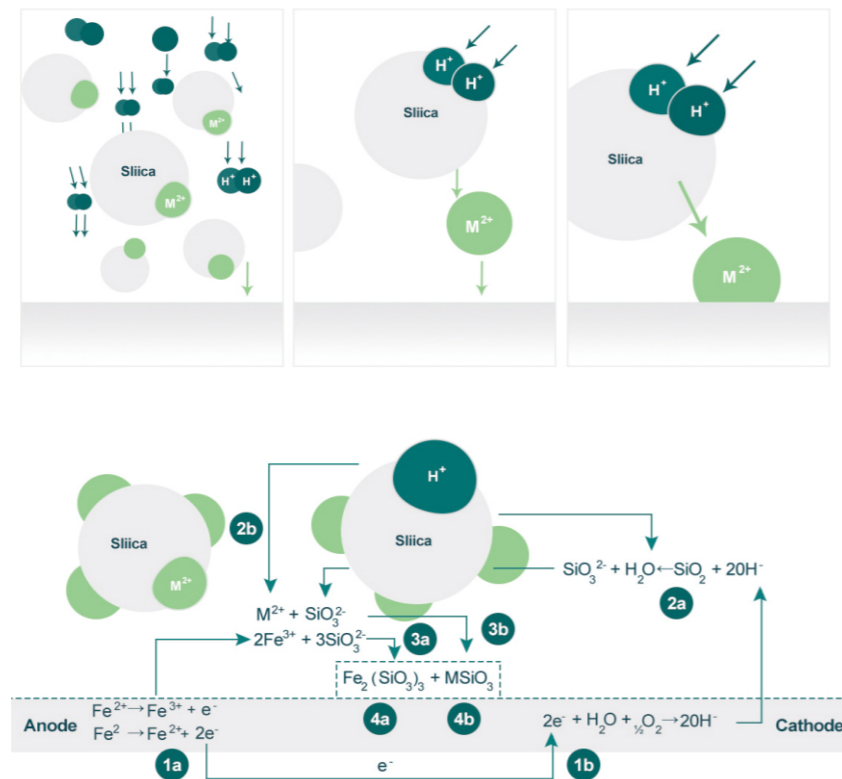
ECO friendly, No heavy metals, Low oil absorption, Great dispersion, Inhibits foaming, Long-lasting protection.

Protection principle

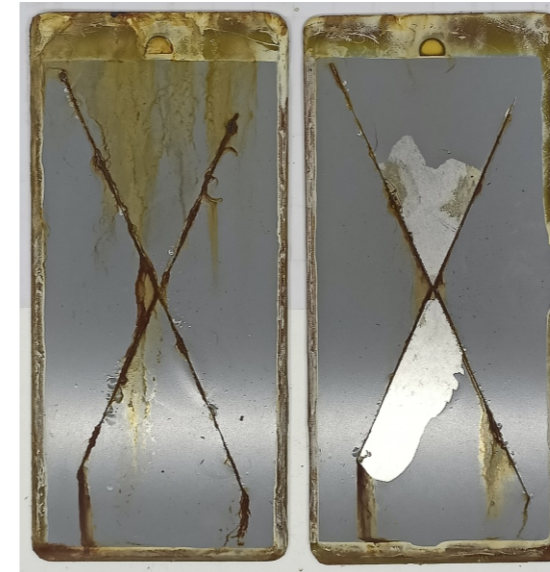
When corrosive electrolytes enter the coating, they come into contact with the anti-corrosion pigments. Anti-corrosion pigments trap them and release calcium ions.

During this process, the coating will maintain a neutral or alkaline pH value; this avoids the hydrogen evolution reaction of the metal and inhibits blistering of the coating;

The continuous release of calcium ions will form a calcium ion layer in the coating, which acts as a physical shield and increases the adhesion of the coating.



Salt spray test



1

2

Subject: Plate 1 for MS 775 silica anti-corrosion pigments.

Plate 2 for Zinc phosphate mixed with aluminum tripolyphosphate.

Condition: 5% Neutral salt spray test, 65 um coating thickness, cold rolled steel plate, 80 degrees celsius & 45 mins for curing time.

Duration: 69 days, total 1656 hours.

Analyze: Plate 1, let it dry naturally after extreme testing, the films keep intact without flake, No overall change during the testing.

Product Parameters

Products	Particle Size D50(um)	Pore Volume ≥ml/g	Oil Absorption g/100g	pH	Heating Loss 105°C≤	Ignition Loss 1000°C≤
MS795	6.5	0.2	40~60	7~9	5	8
MS775	6.5	0.2	50~70	7~9	5	8
MS780	3.0	0.2	60~80	7~9	5	8
MS7801	3.0	0.2	60~80	7~9	5	8
MS7802	3.0	0.2	50~70	7~9	5	8
MS730	3.0	0.3	80~100	5~7	5	8
MS7301	3.0	0.3	80~100	5~7	5	8
MS7302	3.0	0.3	80~100	5~7	5	8