



MagneLine® AC



ANTI-CORROSION COATING

Green, Strong, Flexible, and Easy to Apply

MagneLine® AC is an Inorganic Polymer Cement Mortar coating designed for long term weather protection of steel materials and steel based structures. MagneLine is a mixture of MagneLine Emulsion liquid (Acrylic Ester Polymer Acid Macro-Molecule Complex) and MagneLine Compound (Cement with Aggregate) where the mixture ratio can be adjusted according to its application. Because of it being inorganic and with low resin content, MagneLine does not degrade especially compared to organic PCMs. It is very strong yet flexible/stretchable and very durable. MagneLine has been used over 30 years and on hundreds of steel bridges across Japan and many other structures. It can be applied with spray, roller, and/or brush. MagneLine is a **GREEN** product, certified in Japan as drinking water safe and very low VOC material.

FEATURES

- STRONG YET FLEXIBLE
- HIGH UV RESISTANT
- WATER/MOISTURE RESISTANT
- SALT RESISTANT
- EASY APPLICATION
- NO ODOR/LOW VOC
- ENVIROMENTALLY FRIENDLY
- SELECTABLE COLOR

MATERIAL SPECIFICATIONS

Tests	Comparable	Results
Adhesive Strength	ASTM C882/C1042 AASHTO T237	With Steel > 2N/mm ² (290psi)
Accelerated Weathering	JIS K 5400 ASTM D3424	No change after 3,000 hours
Accelerated PH-Neutral Resistance	JIS A 1152 2003	Unapplied: 5mm Applied: 0mm
Ozone Resistance	Japan	No change after 30 year exposure equivalent
Salt Fog Spray	JIS K 5400 ASTM G85	No change after 4,000 hours
Salt Penetrability	JH Standard ASTM C1543	0.27x10 ⁻³ mg/cm ² (3.8x10 ⁻⁹ lb/in ²) per day
Alkaline Resistance	JIS K 5400 ASTM D543	No change after 30 days
Freeze-Thaw Cycle	JIS 308 1992 ASTM C1262	No change after 300 cycles
Water Submersion	JIS K 5400 ASTM C882	After 3,000 hours, Adhesive Strength 1.9N/mm ²
Compressive Strength	JIS A1171, ASTM C109	> 23.5N/mm ² (3,410psi)
Bending Strength	JIS A 1171	> 7.3N/mm ² (1,060psi)
Tensile Strength	JIS A 1113	> 2.4N/mm ² (350psi)
Static Modulus of Elasticity	JSTM C 7103T ASTM C469	0.8 ~ 1.8 x 10 ⁴ N/mm ² (1.2 ~ 4 million psi)
Impact Strength	JIS A3492 ASTM D2794	650g(1.4lb) ball dropped from 2.4m(8ft) with no change
Multiple Impact (Los Angeles Test)	ASTM C535	No separation after 1,000 rotations
Abrasion	JIS K 7204:1999 ASTM D4213	Loss 3 gram after 1000 rotations
Linear Thermal Expansion	JIS A 1325	13 x 10 ⁻⁶ /C°
Maximum Stretchability	Internal Test	>1.6mm
Formaldehyde (VOC)	JIS K 5601-4-1	0.05 mg/L after 7 days
Drinking Water Quality	Japan Waterworks Law Sec20	Met all requirements

JIS: Japan Industrial Standard (<http://www.webstore.jsa.or.jp/webstore/JIS/SearchEn.jsp?lang=en>)



Protection of Piers with color pigment



Protective Steel Bridge Lining

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