MC-EI-1 Micaceous iron oxide epoxy paint

Product description

MC-EI-1 is two-component high-build epoxy paint which contains micaceous iron oxide. The cured film shows excellent barrier properties, resistance to heat and anticorrosive performance. Provide good adhesion with subsequent coating.

Recommended use

As intermediate coating, can be matched with inorganic zinc-rich primer or epoxy zinc-rich primer for ship, container, bridge and port machinery in moderately to severely corrosive environment. The maximum service temperature at dry condition is 140°C.

Recommended film thickness and s	preading rate	<u> </u>
Film thickness, dry(μm)	75~250	
Film thickness, wet(μm)	97.4~324.6	
Theoretical spreading rate, m ² /l	10.3 3.1	
Basic characteristics		
Color	Gray	
Volume Solids, %	77 ± 2	
Flash Point, °C	29 ± 2	
Density (mix), g/ml	1.6 ± 0.05	
VOC, g/l	270 ± 10	
Water esistance	Good	
Abrasive esistance	Good	
Chemical esistance	Excellent	3

Surface preparation

New steel:

Roughness: using abrasives suitable to achieve medium grade (ISO 8503-2).

Cleanliness: blast cleaning to min. Sa 2 ½ (ISO 8501-1)

Coated surfaces:

Clean, dry and undamaged compatible primer.

The other surface:

Can be used for other surface, please contact the company for further information.

Condition during application

The temperature of the substrate should be at least 3°C above the dew point of the air, temperature and relative humidity measured in the vicinity of the substrate. Good ventilation is usually required in confined areas to ensure proper drying.

Application methods

Spray: airless spray or air spray

Brush: recommended for precoating or small area coating only, multiple coats may be required to achieve the specified film thickness.

Application data

Mixing agitate component A and component B respectively, and then mixed thoroughly

Mixing ratio (weight) A:B=5:1

Pot life (23°C)	6 hours (Reduced at higher temperature)
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Thinner/Cleaner MC-EX-1

Recommended airless spray parameters

Usage of hinner $0\sim15\%$ (weight)

Pressure at nozzle $15\sim20 \text{ MPa}$ (about $150\sim200 \text{ kg/cm}^2$).

Nozzle tp $0.46 \sim 0.69 \text{ mm}$.

Filter Check to ensure that filters are clean.

Drying time

Drying times are generally related to air circulation, temperature, film thickness and number of coats, and will be affected correspondingly. The figures given in the table are typical with:

Good ventilation (Outdoor exposure or free circulation of air)

Typical film thickness

One coat on top of inert substrate

Substrate temperature, °C 40	-5	0	5	10	23
Surface dry, h	8	6	4	3	2
0.5 Through dry, h	36	30	24	16	12
4 Cured, d	21	17	14	10	7
3			577.00 R		79-500-4
Dry to recoat, minimum, h	36	30	24	16	12

The given data must be considered as guidelines only. The actual drying time/recoat interval may be shorter or longer, depending on film thickness, ventilation, humidity, underlying paint system, requirement for early handling and mechanical strength etc.

Typical paint system

Epoxy zinc ich pimer $60 \mu m$ Micaceous iron epoxy pant $200 \mu m$ Acrylic polyurethane bpcoat $2\times40 \mu m$

Other systems may be formulated, depending on specific condition.

Note

MC-EI-1 is a high-build coating with airless spray recommended. During the coating or shortly after coating, loss of gloss, amine blush and other adverse effect may appear due to the condensation of water on the film surface.

Storage

Storage conditions are to keep the containers in a cool, dry, well ventilated space and away from source of heat and ignition.

Containers must be kept tightly closed.

Handling

Handle with care.

Packing size

Component A in a 18 liter container and component B in a 5 liter container, or negotiation.