MC-ES-1 Epoxy sealer

Product description

MC-ES-1 is a two-component, fast drying anticorrosive paint with epoxy resin as binder.

Recommended use

As sealer for inorganic zinc rich primer to avoid pinhole or bubble in anticorrosive systems.

Recommended film thickness and spreading rate

Film thickness，dry(μm)	25～100
Film thickness，wet(μm)	52～208
Theoretical spreading rate，m^2/l	19.2　4.8

Basic characteristics

Color	Iron/other
Volume Solids，%	48 ± 2
Flash Point，℃	26 ± 2
Density (mix), g/ml	1.55± 0.05
VOC，g/l	425 ± 10

Surface preparation

Steel coated with shop primer: Steel coated with shopprimer.

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℃ 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=10:1
Pot life（23℃）	12 hours (Reduced at higher temperature)
Thinner/Cleaner	MC-EX-1
Recommended airless spray parameters	
Usage of thinner	0～10%（weight）
Pressure at nozzle	15～20 MPa（about 150～200 kg/cm^2）.
Nozzle tip	0.38～0.53 mm.
Spray angle	40～80°
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	5	10	23
40			
Surface dry，min	50	20	10
4			
Through dry，h	3	2	1.5
40			
Cured，d	5	3	2
1			
Dry to recoat, minimum，h	3	2	1.5
40			

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

Inorganic zinc silicate primer	75 μm
Seal epoxy paint	30 μm
Micaceous iron epoxy paint	200 μm
Acrylic polyurethane topcoat	2×40 μm

Other systems may be formulated, depending on specific condition.

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.

Note

According to requirement, this product can be diluted before coating.

Packing size

Component A in a 18 liter container and component B in a 4 liter container, or negotiation.

Health and safety

Before and during use of this product, please observe the precautionary notices displayed on the container. Be careful to avoid inhalation and skin contact of paint. Spillage of paint on the skin should immediately be removed with a suitable cleanser, soap and water. Avoid using organic solvent. Eyes should be well flushed with water and then seek medical attention immediately. The product should be used under well-ventilated condition. If using in stagnant condition and narrow place, forced ventilation must be provided, and applicators should take corresponding measures to strengthen personnel protection.