
MC-SFE-1 Solvent-free epoxy paint

Product description

MC-SFE-1 is a solvent-free, two-component epoxy paint, which cures to a coating with excellent anticorrosive performance, good impact and chemical resistance.

Recommended use

Can be used as protective coatings for ships, port machineries, tanks and offshore platform. Especially suitable for coating in confined or closed space.

Recommended film thickness and spreading rate

Film thickness, dry(μm)	100~300
Film thickness, wet(μm)	100~300
Theoretical spreading rate, m^2/l	10 3.3

Basic characteristics

Color	white/grey
Volume Solids, %	100
Flash Point, $^{\circ}\text{C}$	60 ± 2
Density (mix), g/ml	1.24 ± 0.05
VOC, g/l	—
Water resistance	Good
Abrasion resistance	Good
Solvent resistance	Very Good
Chemical resistance	Very Good

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)

Welding, flam cutting or flam adjusting burning parts:

Remove welding spatter, polish the surface smooth and clean to St3 using elastic grinding wheel.

Condition during application

The temperature of the substrate should be above 10°C and 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 two-gun airless spray by heating.

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=4:1
Pot life (23°C)	1 hours (Reduced at higher temperature)
Thinner/Cleaner	MC-EX-1
Usage of thinner	—

Pressure at nozzle	25~35 MPa (about 250~380 kg/cm ²) .
Nozzle tp	0.53~0.68 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	10	23	40
Surface dry, h	24	12	6
Through dry, h	48	24	12
Cured, d	14	7	2
Dry to recoat, minimum, h	48	24	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

Solventless epoxy paint 2×200 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.

Packing size

Component A in an 18 litre container and component B in a 5 litre 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.

For detailed information on the health and safety and precautions for use of this product, please consult our company.

Statement

The information in this data sheet is given to the best of our knowledge based on laboratory testing and practical experience. However, as the product can be used