
MC-WEP-2 Waterborne epoxy MIO anticorrosive paint

Product description

MC-WEP-2 is a two-component polyamine cured waterborne epoxy anticorrosive paint with good applicability. The product forms a tough, hard and low shrinkage film which shows excellent resistance against corrosion and chemicals as well as to abrasion.

Recommended use

Suitable for use on containers, trains, vessels and other occasion of anticorrosive requirement. It can be used as sealer of waterborne inorganic zinc-rich primer to increase the durability of the system in moderately to severely corrosive environment. Not recommended for use in which coating with insulation is required, also not recommended for use underwater.

Recommended film thickness and spreading rate

Film thickness, dry(μm)	30~80
Film thickness, wet(μm)	45~120
Theoretical spreading rate, m^2/l	22 8.25

Basic characteristics

Color	Grey
Volume Solids, %	66 \pm 2
Flash Point, $^{\circ}\text{C}$	-
Density (mix), g/ml	1.40 \pm 0.05
VOC, g/l	None
Abrasion resistance	Good
Solvent resistance	Good

Surface preparation

Shopprimed steel:

Clean, dry, undamaged and recognized shopprimer.

Steel coated with other paint:

Cleaning, drying primer. The surface should be sweep blasted if the maximum recoating interval of the primer is exceeded.

The paint can be used on other substrates. Please contact our company for more information.

Condition during application

This product only can be used above 10 $^{\circ}\text{C}$. The temperature of the substrate should be at least 3 $^{\circ}\text{C}$ above the dew point of the air, temperature and relative humidity measured in the vicinity of the substrate. The surface can be froze when the temperature is below 0 $^{\circ}\text{C}$. This can affect the film adhesion. Good ventilation is usually required in confined areas to ensure proper drying.

Application methods

Spray: use 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) 2 hours (vary with temperature)

Thinner/Cleaner Clean water

Recommended airless spray parameters

Usage of thinner 0~10% (weight)

Pressure at nozzle 20 MPa (about 200 kg/cm²)

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 10 15 23 40

Surface dry, h 2 1 2/3 1/2

Through dry, h 24 20 16 8

Cured, d 10 8 5 3

Dry to recoat, minimum, h 24 20 16 8

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 μm 2×40

Waterborne epoxy MIO paint μm 2×50

Other systems may be formulated, depending on specific circumstances.

Note

In order to avoid contamination of water-borne paint by solvent, spray equipment must be adjusted properly before use. All pumps, pipes, guns and other equipments contacting with solvents must be thoroughly cleaned. If the equipment is made of stainless steel and is designed for water-borne paint, there is no need for adjustment and cleaning.

Before spraying: rinse the equipment and piping with water until it is clean.

After spraying: rinse the equipment and piping with water until there is no residue.

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.
