
MC-ALP-1 Alkyd primer

Product description

MC-ALP-1 is a one-component paint consisting of alkyd resin, anticorrosive pigment, extender, drier etc. It dries quickly and forms a tough film with good adhesion, anti-corrosive performance and applicability.

Recommended use

As anti-corrosive coating suitable for steel in mildly to moderately corrosive environment. It can also be used above the waterline and in common tank of vessel. Can be used with phenolic topcoats, alkyd topcoats and other traditional topcoats.

Recommended film thickness and spreading rate

Film thickness, dry(μm)	30 ~ 50
Film thickness, wet(μm)	48.4 ~ 80.6
Theoretical spreading rate, m^2/l	20.6 12.4

Basic characteristics

Color	iron oxide red or others
Volume Solids, %	62 \pm 2
Flash Point, $^{\circ}\text{C}$	35 \pm 2
Density (mix), g/ml	1.3 \pm 0.05
VOC, g/l	410 \pm 10
Water resistance	fairly good
Chemical resistance	fairly good
Flexibility	good

Surface preparation

Bare steel:

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

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

Other surfaces:

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

Condition during application

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. 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.

Roll coating: can be used for small area coating, but it is not recommended for the first coat of primer. Multiple coats may be required to achieve the specified film thickness.

Application data

Thinner/Cleaner	MC-CX-1
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Recommended airless spray parameters	
Usage of thinner	0~10% (weight)
Pressure at nozzle kg/cm ² .	12~15 MPa (about 120~150)
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, h	6	4	3
1			
Through dry, h	48	36	24
16			
Dry to recoat, minimum, h	48	36	24
16			

The surface must be free from any chalking or any other contamination and if necessary, sufficiently roughened prior to application.

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

Alkyd primer	2×40 μm
Alkyd 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.

Packing size

In an 18 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.
