
MC-WAT-1 Waterborne acrylic paint

Product description

MC-WAT-1 is a water-based acrylic latex paint with good weather resistance. The product forms a film with good decorative effect and stain resistance.

Recommended use

Suitable for use in the steel structure in mildly to moderately corrosive environment. The maximum service temperature in dry conditions is 120°C.

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)	30~100
Film thickness, wet(μm)	63~208
Theoretical spreading rate, m ² /l	16 4.8

Basic characteristics

Color	Various color
Volume Solids, %	48± 2
Flash Point, °C	-
Density (mix), g/ml	1.20 ± 0.05
VOC, g/l	none

Surface preparation

Coated surfaces:

Coated surface should be completely dry, free of oil and debris.

Clean, dry and undamaged compatible primer. Damaged area must be blasted to Sa 2 ½ or power cleaning to St3 grade, and then coat the damaged area with corresponding primer.

Other surfaces:

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°C. The temperature of the substrate should be at least 6°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°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 ratio (weight)	one component
Mixing	-
Pot life (23°C)	-
Thinner/Cleaner	Clean water
Recommended airless spray parameters	
Usage of thinner	0~10% (weight)
Pressure at nozzle	13 MPa (about 130 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	10	15	23	40
Surface dry, h	4	2	1	0.5
Through dry, h	10	6	3	2
Cured, d	2	2	1	1
Dry to recoat, minimum, h	10	6	3	2

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	2×40 μm
Waterborne acrylic paint	(2~3) ×60 μm
Other systems may be formulated, depending on specific conditions.	

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. There is no maximum recoating interval of this product. But when it is exposed to pollutive environment, it is recommended to wash the contamination with high pressure water and let it dry.

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.
