Product Overview

The water-based epoxy barrior coating is a two-component water-based epoxy amine cured coating which contains active anti-rust pigments and a large amount of lamella iron oxide.

Typical Application

As a water-based epoxy zinc-rich primer or water-based inorganic zinc-rich primer coating, it is to increase the duration time in steel structure in moderate to severe corrosive environments. The steel surface can be coated with water-based acrylic, Water-based epoxy, Water-based polyurethane, and suitable Solvent-based paints.

Film thickness and coating rate

	Minimum	Maximum	Typical
Dry film thickness (um)	30	80	50
Wet film thickness (um)	45	120	80
Theoretical coating rate (m2/kg)	10	5	8

Physical character

Color	Silver gray
Solid contents	70
flashing point	nil
Gloss	Semi-gloss
Water-resistance	Favorable
Flexibility	excellent

Surface Treatment

All surfaces should be clean, dry and free from dirt, and the surface should follow ISO8504 before evaluation and processing.
Steel coated with primer
clean, dry, and approved primer
Steel coated with waterborne epoxy zinc-rich primer or waterborne inorganic zinc-rich primer
Clean and dry primer. Sand blast is needed if primer overseeds the maximum re-coating

interval.
Other surfaces
This product can be applied on other substrate. Refer the details to the company.

Engineering Method

Substrate temperature must not be lower than 10°and should be at least 6°or more above the dew point of the air temperature and relative humidity should be measured near the substrate. In narrow area
Good ventilation is usually required to ensure proper drying.

Manner of application

Spray coat	Use airless spray or air spray.
Brush coat	It is recommended for pre-coating and small-area coating, but the required dry film thickness must be achieved.
Roll coat	It can be used in small areas, but it is not recommended as the first primer. In the case of roller coating, sufficient materials must be applied to achieve the specified dry film thickness.

Engineering Specs

Mixing ratio (mass ratio)	Group A：GroupB=2：1,stir evenly. To ensure proper mixing, the two groups are mixed. Use a mechanical stirrer to stir the mixture, and use a mechanical stirrer after mixing the two groups. Stir evenly. (at least 2 minutes)
service life after mixture（23℃）	is 4hours Attn: The paint can no longer be used beyond its service life. It is recommended to use the alarm notice before its expiry.
Thinner/cleaner	water
Spraying parameters	When applying by spray coating, it is necessary to adjust according to the actual spraying conditions. It is recommended to test the spray in a small area and obtain the proper spray parameters before coating.

Drying time

Factors such as ventilation conditions, temperature, film thickness, and coating degree

will affect drying time. Typical data listed in the table below are based on the following conditions:
** Good ventilation (outdoor or natural air circulation) * *Typical film thickness
** Unigrade coating on inert substrates * *Relative humidity 70%

Substrate temperature	10℃	15℃	23℃	40℃
surface	60 minutes	60 minutes	45 minutes	30minutes
solid dry	2 days	1 day	10 hours	6 hours
Solidify	10 days	8 days	5 day s	3 days
The shortest coating time interval	24 hours	16 hours	10 hours	6 hours

Typical supporting system

Corrosion environment classification	C5-I（ISO 12944）Moderate corrosion environment
Waterborne epoxy zinc-rich primer	2 x 40 um (dry film thickness)
Waterborne epoxy iron coating	1 x 50 um (dry film thickness)
Waterborne epoxy anticorrosive finish	2 x 35 um (dry film thickness)

The specific circumstances can be formulated with other supporting records.

Other information

Construction equipment preparation and cleaning procedures
In order to avoid contamination of the waterborne paint by the solvent, the spray equipment must be properly adjusted before use. All solvent-contacting pumps, tubes, guns, etc. must be thoroughly cleaned according to the following steps:
If the construction equipment is made of stainless steel and is used exclusively for the construction of Waterborne paints, this preparation and cleaning work is not required.
Before spraying: Rinse with water in equipment and pipes until it is thoroughly clean.
After spraying: Rinse the equipment and piping with water and leave no residual paint.

Storage

It must be stored in accordance with national regulations. The storage environment should be dry, cool, well ventilated, and away from sources of heat and fire. The packaging container must be kept sealed and frozen.
Storage life：23°C，Group A，1year；Group B，6months Then it is necessary to check again to determine. The increase in storage temperature will significantly shorten the storage life.

Loading

Loading with caution. Stir evenly before use.

Package

30Kilos：Group A20Kilos，Group B10 Kilos
Depending on local needs, different packaging specifications may be available in different countries.

Health and safety

Please note the warning label on the container. Use in good ventilation. No inhaling coating fog. No contact with skin. Paint splashed on the skin should be immediately flushed with a suitable cleaning agent, soap and water. Paint splashed into eyes should be thoroughly cleaned with water and seek medical attention immediately.
For detailed health and safety information and precautions for this product, please consult our Material Safety Handbook.

Declaration

The information provided in this product specification is based solely on the knowledge we have gained in the laboratory and in practice. However, since the use of products is usually out of our control, we only guarantee the quality of the products. We reserve the right to modify this manual without prior notice.
For more details, please check our website：www.towercoating.com.

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