

SUFFIX PRIMER EP ZN

Surface-Tolerant Epoxy Undercoating for Metal Surfaces

Product Definition:

SUFFIX PRIMER EP ZN is an epoxy-based, two-component, solvent and anti-corrosive zinc phosphate pigmented, quick-curing metal surface undercoating paint.

Areas of Application:

Used as undercoating/intermediate coat protective epoxy paint for outer surfaces of aboveground storage tanks,
Structural steel sector,
On-board equipment sector,
Steel and concrete structures and equipments in industrial plants and harbours

for protection against corrosion.

Advantages:

Adhesive, elastic, resistant to corrosion and water,
Excellent adhesive strength on infrequently cleaned surfaces
Extended re-coating period

TECHNICAL INFORMATION

PHYSICAL PROPERTIES

QUALITY (23°C, 50% RH)	VALUE	STANDARD & METHOD
Appearance	Component A: Filled, Colored, Liquid Component B: Filled, Colored, Liquid	-
Color	Grey, Beige, Ox. Red	-
Density (gr/cm ³)	Mix A + B: 1.55 ± 0.05	EN ISO 2811-1
Solid Substance by Volume (V%)	Mix A + B: 64 ± 1	EN ISO 3251

APPLICATION INFORMATION

QUALITY (23°C, 50% RH)	VALUE	STANDARD & METHOD
Mixture Rate	90.9:9.1	(A:B - by weight)
Container Life (hour)	6	100 g (A+B) at 23°C - 50% RH
Touch Drying (hour)	4 - 6	at 23°C - 50% RH
Waiting Period between Coats (hour)	Min. 3	
Full Curing (days)	7	

Fading and changes may arise under direct sunlight; this does not have any impact on the function and performance of the coating.

Application Information:

Surface Information:

Ensure that all the surfaces to be painted are clean, dry and cleared of dirt.

New metal surfaces: Any oil and grease on metal surface should be cleaned by using solvents, detergents or vapour, and salt and other dirt should be cleared by using high-pressure fresh water.

Blasting is recommended at least Sa 2½ level after cleaning according to ISO 8501 standard. Depending on the application conditions and ambient conditions, mechanical cleaning can be carried out at St2 - St3 level according to ISO 8501 standard. The blasted surfaces should be undercoated within maximum 5 hours depending on the ambient conditions.

Old painted surfaces: Oil, dirt and grease should be cleaned with a suitable detergent; salt and other contaminants should be washed off with high pressure fresh water. Old painted solid surfaces should be gently abraded to ensure adhesion.

Spilled and worn surfaces should be mechanically cleaned at St2 - St3 level up to the fresh painted parts, and if possible, abrasive blasting should be applied at minimum Sa2, preferably Sa 2½ level in

accordance with ISO 8501 standard.

Water jet can be applied as an alternative to abrasive blasting to obtain a surface on which good adhesion can be achieved. A fresh paint coat with a rough surface should become visible after water jetting. Since excessive amount of salt will accumulate within thick rust layers, it is recommended to first perform dry abrasive blasting, then wash with high pressure fresh water, and lastly, perform abrasive blasting at the desired level. Better surface preparation will enhance the performance of SUFFIX PRIMER EP ZN.

Concrete surfaces: The surface should be prepared by abrasive blasting until the surface has a hard and rough, uniform surface; if not possible, it should be prepared using other mechanical methods or acid treatment (etching) and cleaned with pressurized fresh water. A suitable sealer should be applied to the surface. Care should be taken to ensure that the surface is clean and dry before application.

Retouch: Ensure that the surface is clean, dry and cleared of all dirt, and retouch should be made at St 2 level as soon as possible after cleaning according to ISO 8501 standard.

Resistance:

Thermally, it is resistant to +80°C at damp temperature (without chemical and mechanical effects at the same time), and +120°C at dry temperature.

Environmental Conditions:

- The relative humidity of the air should be maximum 80%, and the application temperature (environment and surface) should be between +10°C and +35°C.
- There should be no rain during and 12 hours after the application in outdoor areas.
- For applications under direct sunlight, the surface temperature should not exceed 50°C.
- No application should be made if the weather is very windy.
- The floor temperature must be 3°C higher than the present dewing temperature.

Mixture Preparation:

It is a two-component product, and should be prepared depending on the mixture rate designated according to the consumption amount by considering the expiry date of mixture. Ensure that the product temperature is above 15°C to obtain a homogeneous mixture. The

component A should be stirred by using a mechanical mixer in itself immediately and then the hardener (component B) should be added according to the mixture rate. The component A and B should be stirred by using a mechanical mixer for at least 3 minutes until it becomes homogeneous. Ensure that you leave the mixture to rest for 10-15 minutes when the mixture reaches the application viscosity by using epoxy thinner, and it should be consumed before the date of expiry.

Application on Surface:

Before the application of the mixture prepared, the shortcut application should be made for welding seams, sharp corners and edges. The application should be made by controlling with a wet film comb so as to obtain the intended dry film thickness or consumption in paint system. In the application, spraying powder and excessive film thickness should be avoided.

Tool Cleaning:

By using epoxy thinner or cellulosic thinner.

Application Values:

Application Equipment	Airless Spraying	Roller
Dilution Rate (by weight)	6 - 8	8 - 10 %
Pressure (bar)	180 - 240	-
Nozzle (inch)	0.017 - 0.021	-

Drying Information:

(in 50 micron dry film thickness)	Touch Drying	Solid Drying
5°C	36 hours	96 hours
15°C	16 hours	72 hours
25°C	10 hour	36 hours
35°C	7 hours	24 hours

Package:

27.5 kg set SUFFIX PRIMER EP ZN;
Component A: 25 kg
Component B: 2.5 kg.

Consumption:

0.15 - 0.25 kg/m²; the use of undercoating and consumption may vary based on the system solution. (Recommended application dry film thickness is 60 – 100 micron.)

Storage and Shelf Life:

It can be stored for 12 months from the date production if it is properly stored in its original, unpacked and undamaged package in a dry place between +10°C and +30°C.

Safety Measures:

During the application process, the proper work clothes, protective gloves, goggles and mask should be used pursuant to the occupational health rules. The components should not come into contact with skin and eyes due to the irritating effects of the non-cured product. Wash with plenty of water and soap in case of contact. In case of swallowing, immediately see a healthcare professional. For further information, request a Material Safety Data Sheet (MSDS) from your vendor. Keep out of reach of children.

None of the instructions and technical specifications given is binding SPECIFICALLY pursuant to the protective rights of general and third persons, and it does not make you exempt from the obligation to analyze the compatibility of our products. Our company is not responsible for any loss incurred due to natural hazards or usage and/or product compatibility or information and instructions for any reason or in any scope.

