

Product reference: 5/93

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Product title: Plasmet ZF Aerosol

Valid from: 26th October 2018

Last reviewed: March 2021

### Type

An Aerosol delivered, surface tolerant epoxy coating compound incorporating a rust inhibitor and passivator, with MIO and Glass Flake for increased protection.

### Suggested use

ZF provides good corrosion protection on rusted metals with minimum surface preparation, it may also be applied to UHP water-based, bristle blasted or grit-blasted surfaces as an inhibitive coating or primer. ZF can be used entirely on its own, in single or multiple coats or can be overcoated with other Plasmet coatings to give a smoother, more easily cleaned and chemically resistant surface. ZF is tough, durable and tolerant of vehicular traffic. It can be used for protection in both atmospheric and immersed conditions. In atmospheric conditions ZF may be used under decorative finishes such as polyurethane or enamel.

### Limitations

Not suitable for immersion in strong acidic or alkaline environments unless overcoated.

### Health & safety

WARNING: When using this product safety precautions should be observed. Avoid contact with skin or eyes, do not ingest. Protective clothing and eye protection should be worn. Ensure good ventilation a fume mask is only required in enclosed areas and areas of poor ventilation. Read the safety data sheet before use.

### Surface preparation

Remove oil, grease and any other surface contaminants utilizing a suitable solvent, detergent cleaner or emulsifier. ZF will tolerate damp surfaces but excess moisture must be removed, dry is best. Most existing firmly bonded coatings can be tolerated and overcoated by ZF. For best results the

surface should be prepared using bristle blaster or for larger areas localized abrasive blasting. Local repairs may be carried out using a wire brush or needle gun.

### Application

Shake the tin until the ball starts to rattle to mix the base. Remove the bottom cap and attach the "o" ring to the plunger. Pull the plunger firmly down keeping downward pressure on the ring. Rotate the ring by 720°. A knife inside the tin cuts the seal allowing the base and hardener to mix. Shake the tin well for circa 2 minutes. The plunger may be pushed back to its original position, to allow the tin to be stood up if required. Spray apply the material, best results are achieved with the spray nozzle 30-40 cm from the surface and moving the nozzle quickly from side to side. If all the material is not used on a single application, shake well before reusing. The coating should be applied thin enough to prevent runs and sags. Wet film thicknesses of between 6-12 mils (150-300 microns) are recommended. May be applied as a single or two coating system. This should be checked on site with a wet film comb. This material will tolerate high humidity during application but surface temperatures should be at least 37°F (3°C) above the dew point.

### Minimum application temperature

ZF should not be applied below 39°F (4°C) (Cure temperatures below this value are not recommended.)

Maximum Substrate Temperature 140°F (60°C), two coats are recommended at temperatures above 122°F (50°C).

cont.

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### Aerosol life

At 68°F (20°C) up to 24 hours. For ease of application, 3 additional replacement nozzles are supplied with each aerosol tin.

At temperature above 68°F (20°) the recommended life is up to 12 hours.

### Cleaning solvent

Xylene, Toluene or Methyl Ethyl Ketone.

### Practical spreading rate

34 sq ft/ltr at 6 mil dft (3.2 m<sup>2</sup>/litre at 150 micron dft)

Note: This information is given in good faith but may increase dependent upon the environment and the skill and care of the application. Corrocoat accept no responsibility for any deviation from this value.

### Aerosol size

400ml; 96ml base, 32ml activator.

### Storage life

2 years minimum in unopened aerosol tins, stored at 41-104°F (5°C-40°C).

### Flash point

72°F (22°C)

### Activator type

Polyamide

### Abrasion resistance

Excellent.

### Chemical resistance

Good.

### Temperature resistance

Approximately 140°F (60°C) immersed; up to 203°F (95°C) immersed when over-coated with a suitable top coat.

266°F (130°C) non-immersed.

### Dry / Cure time

Cure time will vary dependent upon temperature but will be approximately 30 hours at 39°F (4°C); 18 hours at 68°F (20°C), 10 hours at 86°F (30°C).

### Overcoating

Minimum: 6 hours at 49-53°F.

May be overcoated as soon as touch dry at temperature above 53°F (12°C).

Maximum: 7 days for uncontaminated product

Note: During testing no intercoat failures were witnessed, at all temperatures, mechanical performance will improve with time.

Revised 05/2019  
Revised 07/2020  
Revised 09/2020  
Revised 03/2021

All values are approximate. Physical data is based on the product being in good condition before polymerization, correctly catalysed and full cure being attained. Unless otherwise stated, physical data is based on a test temperature of 68°F (20°C), test results may vary with temperature. Information regarding application of the product is available in the Corrocoat manual. Should further information be required, please consult Corrocoat Technical Services.