Product reference: 5/15

Product title: Plasmet ZF

Valid from: 10th December 2005

Last reviewed: November 2019

Type

A surface tolerant two-pack epoxy coating compound incorporating a rust inhibitor and passivator, with MIO and Glass Flake for increased protection.

Suggested use

ZF is manufactured to give good corrosion protection on rusted metals with minimum surface preparation, it may also be applied to UHP water-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 goggles should be worn. Ensure good ventilation and wear a fume mask suitable for hydrocarbon vapours. When using in confined spaces an air fed mask should be worn. Read safety data sheet before use.

Surface preparation

Remove oil, grease and any other surface contaminants utilising 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.

Application equipment

Brush and roller, or airless spray equipment using a 45:1 ratio or greater pump and gun fitted with a 19 to 25 thou tip of reversible type.

Mixing ratio/mixing

Approximately 3:1 base to activator **by volume;** 7:1 base to activator **by weight.** Remove lids from both components A-Activator and B-Base and pour all of component ‘A’ into component ‘B’ and mix thoroughly. Ensure that no unmixed material remains, the material is now ready for use and should be applied as soon as possible. After mixing, the material remains usable for a limited period dependent upon temperature, after which time application becomes difficult. A small amount of ZF thinner floated on top of the material will aid brush application in hot climes.

Pot life

At 20°C, 1.5 hours for brush/roller application or 50 minutes for spray application.

Application

Plasmet ZF should be applied thin enough to avoid runs or sags in the coating at a wet film thickness of approximately 250 microns (100 to 150 microns dft). ZF should not be applied to surfaces at temperatures below 4°C. This material will tolerate high humidity conditions during application but the surface temperature should be at least 3°C above dew point.

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Thinners

A blended thinner may be obtained from Corrocoat where thinning is necessary and may be used to thin ZF to a maximum of 10%.

Packaging

1 litre, 5 litre and 10 litre composites.

Storage life

2 years minimum in unopened tins, stored at 5°C-40°C.

Colour availability

Black, red oxide, light grey, green.

Recommended DFT

Dependent upon service duty, but generally one coat at 150 microns in light atmospheric duty; two coats at 150 microns in aggressive atmospheric or immersed conditions. Edge and stripe coating will be required with both single or double coats. ZF may be used at 120um as a primer for other topcoats and paints.

Volume solids

57.5 % by volume.

Practical spreading rate

3.2 m²/litre at 150 micron dft

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

Specific gravity

Base and activator mixed 1.8 gms/cc

Flash point

22°C

Activator type

Polyamide

Mixing ratio

757 part base to 245 part activator **by volume.**

Abrasion resistance

Excellent.

Chemical resistance

Good.

Salt spray resistance

Excellent; greater than 6000 hours on a two coat system at a minimum DFT of 170 microns.

Temperature resistance

Approximately 60°C immersed; up to 95°C immersed when over-coated with a suitable top coat.
130°C non-immersed.

Dry / Cure time

Cure time will vary dependent upon temperature but will be approximately 30 hours at 4°C; 18 hours at 20°C, 10 hours at 30°C.

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Overcoating

Minimum: 6 hours.

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

Maximum: 7 days for uncontaminated product.

Cleaning solvent

Xylene, Toluene or Methyl Ethyl Ketone.

Reviewed 12/2005
Revised 10/2010
Reviewed 02/2014 (No changes)
Reviewed 05/2016 (No changes)
Revised 03/2018
Revised 05/2018
Revised 07/2019
Revised 11/2019

All values are approximate. Physical data is based on the product being in good condition before polymerisation, correctly catalysed and full cure being attained. Unless otherwise stated, physical data is based on a test temperature of 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.