

## POLYGLASS

## Polyglass Zipcoat

Product reference: 2/38

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Product title: Zipcoat

Valid from: 27th November 2007

Last reviewed: May 2019

### Type

A rapid curing two-pack, multi-monomer isophthalic polyester glassflake coating.

### Suggested use

Zipcoat provides durable corrosion protection in aggressive atmospheric conditions and some immersion environments. It has excellent application characteristics and can be applied in single coats, giving good edge coverage, when spray applied. Zipcoat has good gloss and cosmetic appearance. It has rapid cure times and will cure at temperatures below freezing. Zipcoat may be used for structural steel, bridges, piling, jetties, ships hulls, decks, ballast tanks, pipelines and other immersed marine environments.

### Limitations

Unsuitable for immersion service in many chemical and aggressive service environments. Temperature limit in Immersion service is 122°F (50°C), and in non-immersed environments 194°F (90°C).

### Health & safety

Before handling or using this product, the material safety data sheet should be read and all precautions observed.

### Surface preparation

**Metals:** Grit blast to SSPC-SP10 (ISO 8501-1 Sa 2½) or equivalent standard. (For full details refer to Corrocoat Surface Preparation SP1).

**Concrete:** Priming is required. See Corrocoat Surface Preparation Specification SP5.

### Application

Airless Spray Pump with minimum 30:1 ratio and output of

at least 3 litres per minute. The pump should be fitted with leather seals and all fluid filters removed. Use 10mm diameter (3/8") Nylon lined spray hose with a short 6mm (1/4") whip end and large bore contractor type Spray Gun fitted with swivel connector. An 18-25 thou reversible tip is recommended. Spray tip size and fan pattern can vary and should be selected to suit the nature of the work. Fluid pressure should be circa 2500 psi depending on temperature, spray line length etc. (Refer to Application Data Sheet).

Intended primarily for spray application, Zipcoat may be applied by brush or short haired roller.

### Pot life

Pot life will vary significantly with temperature but generally 50-60 minutes using P2 catalyst.

Temp	39°F (4°C)	68°F (20°C)	86°F (30°C)	104°F (40°C*)	122°F (50°C*)
Pot life	4.5 hrs	55mins	30mins	25*mins	15*mins

(\* using inhibitor)

### Thinners

The performance of this product **will be adversely affected** by the use of solvent thinners.

Thinning may be achieved by the addition of not more than 5% by volume of styrene to the base. For normal applications it is not anticipated that any addition of styrene will be necessary. Addition of styrene may increase tack free times and hold-up will be affected. This should be checked before application.

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### Packaging

1 Gallon and 5 Gallon Kits

### Catalyst / hardener type

Organic peroxide at 2% by weight.

### Storage life

**Base:** 12 months stored at temperatures below 75°F (24°C) away from heat sources and direct sunlight. During extended storage i.e. greater than 3 months, it is recommended that the drums be periodically inverted. Frequent temperature cycling will shorten storage life and may cause condensation polymerisation.

**Hardener:** 6 months at 75°F (24°C). (Note Hardener may become hazardous if stored at high ambient temperatures. See separate HS Data Sheet).

### Color availability

OffWhite or Light Grey are standard. Other colors including green, red oxide, yellow and black are available on request. Price subject to color and quantity.

**NOTE:** This product is formulated to give optimum corrosion resistance. Due to the nature of the polymerization process of this product, **it is not possible** to guarantee color stability or matching.

### Volume solids

Nominally greater than 99%. This material contains volatile liquid monomers, convertible to solids. In consequence volume solids and WFT/DFT ratios will vary, dependent on polymerization conditions. As guidance, a wet film of 20 mils (500microns) will normally achieve 16 mils (400microns) DFT.

### Recommended DFT

20 mils (500 microns) non immersed, 32 mils (800 microns) minimum in immersion.

### Practical coverage rate

Approximately 28 sf per gal at 20 mils (0.7 litre/m<sup>2</sup> at 500 microns) DFT.

**NOTE:** This information is given in good faith but consumption may increase dependent upon environment conditions, geometry, nature of work undertaken and the skill and care of application. Corrocoat accepts no responsibility for any deviation from these values.

### Specific gravity

Base: 0.04lbs/cubic inch (1.24 gcm<sup>-3</sup>)

Hardener: 0.03lbs/cubic inch (1.1 gcm<sup>-3</sup>)

### Flash point

84°F (29°C).

### Mixing ratio

98:2 base to hardener (P2) by weight/weight. **Observe safety requirements.** At high ambient temperatures inhibitor may be used to extend pot life but should be added to the base and thoroughly mixed **before addition** of the hardener.

### Hardness

Approximately 50 Barcol, higher values are possible in optimum conditions.

### Elongation to break

Approximately 1.5%.

### Abrasion resistance

201 mg loss/1000 cycles/1000gm load. H18 wheels.

### Tensile strength

272 kg/cm<sup>2</sup>.

cont.

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### Overcoating

Where multiple coats are required, overcoating may take place as soon as the previous coat has gelled and still tacky.

**Maximum** overcoating time is 72 hours at 68°F (20°C).

Overcoating times can be extended at low temperatures but will reduce **significantly** at higher ambient temperatures **and/or** in strong sunlight.

### Coating adhesion

4196 psi (295 kg/cm<sup>2</sup>)

### Cure time

Tackfree in less than 3 hours, full cure 4 days at 68°F (20°C). Tack free and full cure values will vary subject to ventilation and temperature. The product may be put into **non-aggressive** service once tack free.

### Cleaning solvent

Normal solvents are ineffective in removing Zipcoat resin from spray pumps and lines. Zipcoat cleaner should be used within the pot life of the product to avoid equipment damage. If Zipcoat Cleaner is unavailable, MEK or Acetone can be used. **Observe safety regulations.**

Reviewed 07/2011  
Reviewed 02/2014 (No changes)  
Reviewed 05/2016 (No changes)  
Reviewed 05/2019

All values are approximate. Physical data is based on the product being in good condition before polymerization, correctly catalyzed 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.