T: +44 (0) 113 2760 760 E: info@corrocoat.com

CORROCOAT

POLYGLASS Ecoflake

Product reference: 2/36

Product title: Ecoflake

Valid from: 7th December 2004

Last reviewed: May 2016

Type

Styrene free bisphenol polyester glass flake.

Suggested use

Applications where **styrene is not desirable** or allowed.

Immersion: Marine, including splash zones, hydrocarbon storage, aqueous, corrosive chemical environments, etc. For Chemical resistance data refer to the Corrocoat Chemical Resistance list for Corroglass 200 Series.

Non Immersed: Aggressive atmospheric conditions and corrosive gas, superstructures, heli-decks, structural steel work etc. Polyglass Ecoflake has good UV resistance and good flexibility at dry film thicknesses of less than 1.25 mm.

Limmitations

Limited protection against polar solvents, not suitable for demineralised water or where pH conditions are <1 or >12.

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 ISO standard 8501-1 Sa 2½. SSPC-SP 10. (For full details refer to Corrocoat Surface Preparation SP1.)

Concrete: refer to Corrocoat data sheet SP5.

Mixing ratio / mixing

100 : 2 base to hardener. Mix well using a mechanical stirrer.

Application equipment

Airless pump 45:1 or greater, fit leather and PTFE seal combination and remove all fluid filters. 10mm diameter (3/8") nylon lined hose with whip end. Large bore gun with .6mm to 1.5mm (24 to 60 thou) reverse clean tip. Typical tip size is 0.75 to .85mm (30-35 thou) with a 45° fan pattern. Size of tip and fan pattern will vary with nature of the work. Pressure to suit hose length and working conditions. (circa 200bar). (Use Vinyl Toluene as the priming fluid).

Application

Dependent upon intended use and site conditions, but Ecoflake is normally applied wet on wet at films between 500 and 1000 microns. For further details see Polyglass Application Data Sheet 6/20 ABC. Single coat application is acceptable.

Recommended DFT

600 - 800 microns in atmospheric conditions.
850 - 1250 microns in aqueous and marine immersion.
1250 microns plus in highly corrosive conditions and chemical service.

This material is a barrier coating and the thickness needed is dependent upon service conditions. If in doubt seek guidance.

Pot life

Varies with temperature but approximately 50 minutes at 20°C. Pot life extender (retarder) available, refer Corrocoat TSD.

Thinners

This product should not be thinned. Under no circumstance should solvent be added to this material.

Packaging

10 and 20 litre composites, including hardener.

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Storage life

Base 12 months, Catalyst 6 months, stored at temperatures below 20°C and out of direct sunlight. Frequent temperature cycling will shorten storage life and may cause lump formation. It is recommended during extended storage, i.e. greater than 3 months, that the drums be periodically inverted.

Colour availability

Off white as standard. Green, yellow, grey, red oxide and black to order, subject to minimum order quantities of 1000 litres.

Theoretical spreading rate

1.33m²/litre at 750 microns.

Volume solids

This coating contains volatile liquid convertible to solids. Actual volume solids obtained will vary dependent upon polymerisation conditions. Nominally 97% of the contents are convertible to solid.

Practical spreading rate

1.05m²/litre at 750 microns.

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

Specific gravity

Base & Hardener Mixed sg:1.15 gms/cc.

Flash point

56°C.

Catalyst type

Methyl Ethyl Ketone Peroxide type P2.

Hardness

Greater than 40 Barcol after full cure.

Elongation at break

Atmospheric conditions 1.3%.

Tensile strength

Circa 274 kg/cm² (3900psi) dependent upon cure state.

Temperature limits

90°C immersed
130°C non immersed, **dependant upon service.**

Abrasion resistance

255mg. Loss 1000 cycles/1000 gm load H18 wheel.

Overcoating

May take place as soon as the previous coat has gelled and whilst still tacky. Maximum overcoating time is 72 hours at 20°C. For times in excess of 72 hours and for coating of concrete substrates, refer to Corrocoat for special instructions.

Curing time

With standard inhibitor level, tack-free 6 hours, full cure 3-4 days at 20°C, but may be immersed in many environments after 8 hours. Excellent low temperature curing characteristics.

Cleaning solvent

Methyl Ethyl Ketone, Methyl Iso Butyl Ketone - before gel.

All values are approximate. Physical data is based on the product being in good condition before polymerisation, correctly cat-alysed and full cure being attained. Information regarding application of the product is available in the Corrocoat manual. Should further information be required, please consult Corrocoat Technical Services.

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