

POLYGLASS

Polyglass VEFT

Product reference: 2/34

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Product title: Polyglass VEFT

Valid from: 28th April 1998

Last reviewed: May 2019

Type

A 2-pack cold cured vinyl ester/acrylic co-polymer enhanced with flaked glass. This product has excellent chemical and moderate erosion/abrasion resistance. A unique property is its extremely high resistance to undercutting/delamination from damaged edges in service.

Suggested use

Immersion; such as marine, hydrocarbon, aqueous and corrosive chemical environments. Also applicable where aggressive atmospheric conditions appertain. Strip coating for spray grades of Polyglass. This product may be hand or spray applied. Single coat spray applications may be built to thicknesses in excess of 1.5mm.

Limitations

Not suitable for protection against polar solvents and where pH conditions are below 1 or above 12.

Health & safety

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

Surface preparation

For optimum performance of product under immersed conditions, grit blast steel to SSPC-SP10 (ISO 8501-1 Sa 2½ near 3) or equivalent prior to application. For full details refer to Corrocoat Surface Preparation SP1.

Mixing ratio / mixing

Polyglass VEFT can be catalysed by a 2% weight addition of Corrocoat catalyst type P2-45.

Mixing procedure

The material has been supplied in kits, each consisting of

the base component (large tin) together with the appropriate amount of catalyst. Add approximately one half of 1 bottle of catalyst to a tin of the base material and agitate with a mechanical stirrer for about 2 minutes. Then add the remainder of the catalyst, mixing thoroughly.

Application equipment

Brush or short haired roller.

Application

Two or more coats of Polyglass VEFT should be applied until a minimum DFT of 30mils (750 microns) or greater has been achieved, over thickness is not detrimental. (See below for overcoating intervals.) Polyglass VEFT is also used for stripe coating Polyglass VEF work.

Pot life

60 Minutes at 68°F (20°C). Pot life will reduce substantially with increase in temperature and extend with decrease in temperature. Inhibitor is available to extend this time for hot climates.

Thinners

THIS PRODUCT SHOULD NOT BE THINNED. The use of solvent thinners will adversely affect performance and under no circumstances must they be used.

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Volume solids

This material contains volatile liquid convertible to solids. Volume solids obtained will vary dependent upon polymerization conditions. Nominally greater than 99% of the contents are convertible to solid.

Theoretical spreading rate

82 sf per gal at 20 mils (2.0m²/litre at 500 microns).

Practical spreading rate

42 sf per gal at 20 mils (1.06m²/litre at 500 microns).
(Practical coverage values will vary dependent upon application conditions and procedures.)

Overcoating

May take place as soon as the previous coat has gelled sufficiently to bear the weight of the next coat and while still tacky. Minimum overcoating interval 3 hours under well ventilated conditions at 68°F (20°C). Longer periods pertain to cooler conditions. Maximum overcoating interval 48 hours at 68°F (20°C). For longer intervals than this refer to Corrocoat for technical advice. Superior inter-coat adhesion characteristics are favored by short overcoating intervals.

Curing time

Tack free: approximately 4 hours at 68°F (20°C) Full cure: 3-4 days at 68°F (20°C)
Minimum cure before immersion: 24 hours at 68°F (20°C)

Cleaning solvent

Use Methyl Ethyl Ketone or Methyl Isobutyl Ketone before gelation occurs

Reviewed: 07/2011
Reviewed 02/24 (No changes)
Reviewed 10/2017 (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.