T: (904) 268-4000 E: info-usa@corrocoat.com

POLYGLASS

POLYGLASS PPV

Product reference: 2/30

Product title: PPV

Valid from: 17th December 2004

Last reviewed: April 20

Type

A two-pack peroxide catalyzed vinyl ester glass flake primer and laminating resin.

Suggested use

Used as a Novolac VE laminating resin or as a holding primer on metal substrates for Polyglass VE/VEF where service temperatures are in excess of 176°F (80°C). Also may be used for adhesion promotion between existing Polyglass VE and a repair or new topcoat.

Limitations

PPV must not be used where damp conditions exist and pH is above 9. **Strong sunlight** will cause rapid cure and **substantially reduce** overcoating time as will high ambient temperature.

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 standard 8501-1 Sa 2½ near 3) or equivalent. (For full details refer to Corrocoat Surface Preparation SP1.)

Concrete: Consult Tech Services. Generally, not recommended except as a sealer, test patches should be applied first to confirm bond and cure.

Application equipment

Airless pump 30:1 minimum ratio is recommended with 10mm diameter (3/8") nylon lined hose and 6mm whip end. Seals should preferably be of leather and PTFE and all fluid filters must be removed. Tip size 18 to 30thou with reverse clean and a 45° fan pattern.
Brush and roller may also be used.

Application

As a laminating resin, use to fully saturate the fiberglass glass, ensuring that all air bubbles are removed with an air roller.

As a holding primer, apply as a single coat at a wet film thickness of between 2-5 mils (50-120 microns). Over thickness will increase tack free time.
For this product to cure it is essential that good ventilation is achieved.

Recommended DFT

DFT is not specified.

As a laminating resin, practical spread rates generally range from 20 - 30 sf per gallon; varies according to the size and type of fiberglass and the skill of the applicator.

As a holding primer, wet film thicknesses should be checked and be within the range 2-6 mils (50-150 microns) maximum during application.

Mixing ratio / mixing

98:2 base to hardener weight/weight.

For temperatures **below** 60°F (15°C) add catalyst to base product and mix vigorously with a mechanical stirrer for not less than 2 minutes. For temperatures **above 60°F (**15°C), **first** add retarder and stir by mechanical agitator for 2 minutes then **allow a minimum of 3 minutes** before the addition of catalyst which should again be stirred in vigorously with a mechanical stirrer for not less than 2 minutes. **Adding Retarder after** the Catalyst will **ruin the product**.

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Packaging

1 Gallon and 5 Gallon Kits

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Storage life

Base and Hardener - 6 months in unopened drums which should be stored below 75°F (24°C), away from heat sources and out of direct sunlight.

Color availability

Clear, slightly amber.

Theoretical spreading rate

20-10 M²/Litre at 2-4 mils (50-100 microns) WFT.

Volume solids

This material contains volatile liquid convertible to solids. Volume solids obtained will vary dependent upon polymerization conditions. Nominally 91% of the contents are converted to solid.

Practical spreading rate

Steel: Approximately 16-8 M²/Litre at 2-4 mils (50-100 microns) WFT.

Concrete: Approximately 12-6 M²/Litre at 2-4 mils (50-100 microns) WFT.

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 accepts no responsibility for any deviation from these values.

Specific gravity

0.03lbs/cubic inch (1.06 gms/cc) mixed.

Catalyst type

Methyl Ethyl Ketone Peroxide type P2.

Mixing ratio

98:2 base to activator by weight.

Flash point

82°F (28°C).

Drying time

Tack free with good ventilation - 90 minutes, 50°F (10°C) at 2-4mils (50-100 microns) WFT.
Tack free 50 minutes, 68°F (20°C) at 50-100 microns WFT.

Overcoating

It is important to observe maximum overcoating times and note these will vary with climatic conditions. Dependent upon temperature and ventilation level, minimum at 68°F (20°C) with good ventilation 1.5 hours. Maximum at 68°F (20°C), 3 days. Strong ultra- violet / sunlight will substantially reduce overcoating time.

Once the maximum overcoating time has been reached, adhesion values attained by any subsequent coat will reduce drastically. Any further application of coating at this juncture should be treated as a repair, with the surface flash blasted to provide a physical key. Styrene cannot be used to reactivate the surface of this product and may impair adhesion.

Care should be taken to avoid contamination of applied PPV Primer before application of subsequent materials.

Cleaning solvent

Methyl Ethyl Ketone - before gelation.

Pot life

Variable dependent upon temperature, but approximately 2 hours at 50°F (10°C), 1 hour at 68°F (20°C).

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Thinners

This product should not be diluted or thinned. The use of thinners is detrimental to performance except where advised for use with concrete.

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.

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