

POLYGLASS

POLYGLASS PPA

Product reference: 2/01

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Product title: PPA

Valid from: 17th December 2004

Last reviewed: March 2022

Type

A peroxide catalysed, glass flake polyester primer.

Suggested use

As a holding primer for ferrous substrates prior to application of Polyglass **or Polyglass VE**. Can also be used for adhesion promotion between existing Corroglass/Polyglass and repairs, or a new topcoat. PPA is also **used** for priming **concrete** when suitably diluted, see data sheet SP5.

Limitations

PPA is designed to react with the overcoat material for full cure, it cannot be used on its own except for a limited period in air.

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

Concrete: Refer to Corrocoat data sheet SP5.

Application equipment

Airless pump of minimum 30:1 ratio is recommended with 10mm diameter (3/8") nylon lined hose. Seals should preferably be of leather and PTFE and **all fluid filters removed**. Tip size .45mm to .75mm (18 to 30 thou) with reverse clean and a 45° fan pattern. Size of tip and fan pattern will vary dependent upon the nature of the work. Pressure to suit hose lengths and working conditions. (circa 200bar). Brush and roller may also be used.

Application

Apply a single coat to a wet film thickness of between 60 and 120 microns. Over thickness will considerably increase tack free time and **substantial over thickness is detrimental**. The initial cure of this product is partially by air-drying and for this to occur **it is essential** that good ventilation is achieved. For use on concrete see separate Concrete Surface Specification Sheet CP1. PPA Primer should not be used at temperatures below 5°C unless specifically made for low temperature application.

Recommended DFT

DFT is not specified. Wet film thickness should be checked and be within the range 60 to 150 microns during application.

Mixing ratio/mixing

98:2 base to hardener weight/weight.

For temperatures **below** 18°C add catalyst to base and mix vigorously with a mechanical stirrer for not less than 2 minutes. At temperatures **above** 18°C, first add retarder and stir with mechanical stirrer for 2 minutes. Allow 5 minutes before the addition of the catalyst stirred as above. **Adding retarder after the catalyst will ruin the product.**

Procedures for spray application are similar to those for Polyglass, the Polyglass application data sheet should be read before the mixing of this product.

Packaging

20 litre drums with catalyst or 10 litre drums on request.

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Storage life

Base 1 year, Hardener 6 months, in unopened drums which should be stored below 24°C, away from heat sources and direct sunlight.

Colour availability

Clear/slightly amber and light bluff.

Theoretical spreading rate

20-10m²/litre at 50-100 microns WFT.

Volume solids

This material contains volatile liquid convertible to solids. Volume solids obtained will vary dependent upon polymerisation conditions. Nominally 92% of the contents are convertible to solid.

Practical spreading rate

Steel: Approximately 15-8 m²/litre at 50-100 microns WFT.

Concrete: Approximately 10-6 m²/litre at 50-100 microns WFT.

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

Specific gravity

1.055 mixed.

Flash point

26°C.

Catalyst type

Methyl Ethyl Ketone Peroxide, special blend Type P3. Some separation of P3 may occur especially at low temperatures. Ensure the lid is firmly attached and shake for 20 seconds before use.

Mixing ratio

98:2 base to activator by weight.

Drying time

Tack-free 90 minutes, 10°C at 60-100 microns WFT.

Tack-free 60 minutes, 20°C at 60-100 microns WFT.

Overcoating

Dependent upon temperature **and** ventilation level, but minimum at 20°C with good ventilation - 2 hours. Maximum at 20°C - 28 days. Where long overcoating times are envisaged, **care should be taken to avoid contamination** of PPA Primer coating before application of subsequent materials. **On concrete** the special instructions regarding minimum overcoating time should be strictly observed. (SP5).

Cleaning solvent

Methyl Ethyl Ketone before gelation.

Pot life

Variable dependent upon temperature, but approximately 2 hours at 10°C, 1 hour at 20°C.

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Thinners

The use of thinners with this product is detrimental to its performance. Except for application to concrete, this product should not be diluted or thinned. Dilute only with styrene as recommended.

Reviewed 01/2006
Reviewed 02/2014 (No change)
Reviewed 05/2016 (No change)
Revised 04/2018
Revised 05/2019
Revised 03/2022

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 any further information be required, please consult Corrocoat Technical Services.