

POLYGLASS

Polyglass 100

Product reference: 2/14

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Product title: Polyglass 100

Valid from: 30th April 2004

Last reviewed: May 2019

Type

Two-pack isophthalic polyester acrylic glass flake coating.

Suggested use

Immersed environments such as marine, aqueous, light chemical service and many aggressive atmospheric environments. Can be used as a floor coating and may be applied with skid resistant aggregate.

Limitations

Generally not resistant to solvents and aggressive chemical environments. **Maximum** service temperature in immersion conditions is limited to 60°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 ISO standard 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 45:1 or greater, fit leather seals and remove fluid filters, 10mm diameter (3/8") nylon lined hoses, large bore gun with 0.6mm 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. The size of tip and fan pattern will vary with the nature of the work. Pressure to suit hose lengths and working conditions. (circa 200bar).

Application

A single or two coat application directly to steel, generally at 600um DFT for atmospheric or 850um and above for immersion conditions. PPA primer may be required for logistical purposes.

Mixing ratio

For normal applications 98.5:1.5 base to hardener (catalyst P2). At high ambient temperatures inhibitor added and well mixed before the hardener is added may be used to retard the pot life. Below 10°C the cure of the product may be improved by use of Catalyst P4, mix ratio 97.5:2.5 base to hardener.

Pot life

Generally 50-60 minutes at 20°C. The pot life **will vary substantially** with temperature. Inhibitor may be used at temperatures above 21°C, special catalyst may be provided for use in low temperature applications. See above.

Thinners

The performance of this product will be **adversely affected** by the use of solvent based thinners. When necessary thinning may be achieved by the addition of **not more than 5%** by volume of styrene to Polyglass. Thinning for normal applications will **not be necessary**. The addition of styrene may adversely affect the chemical resistance of the product and **hold-up will also be affected**.

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Packaging

20 litre composite kits standard, 10 litre kits available.

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 condensation polymerisation. It is recommended during extended storage, i.e. greater than 3 months, that **the drums** be periodically inverted. See CC Tech Manual (other information) for extension of shelf life.

Colour availability

Off white as standard, unpigmented (brown), red oxide, yellow, black and green to order.

Theoretical spreading rate

0.998m² at 1mm dft per litre

Volume solids

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

Practical spreading rate

1.06m²/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: 1.218 gcm⁻³

Hardener: 1.07 gcm⁻³

Flash point

26°C.

Catalyst type

Methyl Ethyl Ketone Peroxide type P2.

At temperatures below 10°C use peroxide type P4.

Mixing ratio

98.5 : 1.5 base to hardener .

<10°C, P4 97.5 : 2.5 base to hardener.

Hardness

Approximately 40 Barcol. May be higher in ideal conditions.

Abrasion resistance

224.2 mgm loss/1000 cycles/1000gm load H18 wheel.

Overcoating

May take place as soon as the previous coat has gelled but whilst still tacky. Maximum overcoating time 72 hours but maximum overcoating time will **reduce significantly** at high ambient temperature **or in strong sunlight**.

Coating adhesion

Greater than 10MPa.

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Curing time

Tack free in 5 hours, full cure 7 days at 20°C. May be immersed in non-chemical aqueous environments immediately after gel.

Cleaning solvent

Methyl Ethyl Ketone, Methyl Iso Butyl Ketone or Acetone prior to gelation.

Reviewed 10/2011
Reviewed 05/2016 (No changes)
Reviewed 05/2019

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.