

POLYGLASS

Polyglass Anti-Static

Product reference: 2/04

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Product title: Polyglass Anti-Static

Valid from: 12th December 2011

Last reviewed: May 2019

Type

An electrically conductive two pack cold cured acrylated ester system loaded with flaked graphite and glassflake designed to dissipate static electricity.

Suggested use

As a conductor layer for preventing static build up. It can be used as a surface veil to other Corrocoat products.

Limitations

Moderate abrasion and erosion resistance.

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 8501-1 Sa 2½ near 3) or equivalent. (For full detail refer to Corrocoat Surface Prep SP1).

Concrete: Refer to Corrocoat data sheet SP5.

Application equipment

45:1 ratio airless pump fitted with 10mm nylon lined hoses. Spray gun should be fitted with a clean by reversing tip in the range 40 to 60 thou. As a guide, a typical tip size would be 47 thou with a 60° fan pattern. The size of tip and fan pattern will vary dependent upon the nature of the work. May also be applied by brush.

Mixing ratio

98:2 parts base to hardener. For mixing instructions use the Polyglass Application Data Sheet. This product behaves in a similar manner, but the addition of inhibitor should only be made after first checking the suitability with Corrocoat.

Pot life

Approximately 1 hour at 68°F (20°C). Pot life will decrease at higher temperatures and increase at lower temperatures. Seek the advice of Corrocoat USA for availability of inhibitor.

Application

When used on its own Polyglass Anti-Static should be applied in at least two layers to a minimum DFT of 40 mils (1000 microns).

Each coat should be applied to a WFT between 24-40 mils (600-1000) microns by multi pass wet on wet spray technique. When used as a surface veil for Corroglass materials it should also be applied in two coats to a DFT of 20 mils (500 microns) with the Corroglass/Polyglass Anti-Static combination being not less than 40 mils (1000 microns) in total. **Do not add dye to this product.**

Thinners

DO NOT THIN. The addition of Styrene may substantially affect the chemical resistance of this product, particularly where post curing is not carried out. NO OTHER DILUTENT OR THINNER SHOULD BE USED. THE USE OF ACETONE OR SIMILAR THINNERS WILL SEVERELY AFFECT PRODUCT PERFORMANCE.

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Packaging

1 Gallon and 5 Gallon Kits

Storage life

6 months stored at temperatures below 68°F (20°C) and away from heat sources and direct sunlight. Frequent temperature cycling will shorten storage life. See other information for extension of shelf life.

Color availability

Black only.

Recommended DFT

500-1000mm multiple coats. 20 mils (500 microns) when applied under or over other Corrocoat products.

Theoretical spreading rate

Approximately 40 sf per gallon (0.98 m²/litre) @ 1mm.

Volume solids

This material contains volatile liquid convertible to solids. Volume solids obtained will vary dependent upon polymerization conditions. Nominally 99.3% of the contents are convertible to solid.

Practical spreading rate

29 sf per gallon (0.71 m²/litre) @ 1mm.

NOTE: This information is given in good faith, but usage may vary dependent upon environment 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

0.05 lbs/cubic inch (1.24 gms/cc)

Flash point

79°F (26°C).

Catalyst type

Methyl Ethyl Ketone Peroxide Corrocoat Type P2-45

Mixing ratio

98:2 base to catalyst.

Hardness

32 Barcol (approximate).

Elongation

0.9%.

Temperature limits

230°F (110°C)

immersed. 347°F

(175°C) non-

immersed. No lower limit.

Overcoating

May take place as soon as previous coat has gelled sufficiently to resist movement of next application and while still tacky. Maximum overcoating without treatment: 48 hours. Shorter at ambient temperatures above 86° (30°C).

Once the maximum overcoating time has been reached, adhesion values attained by any subsequent coat will reduce dramatically. It is important to observe maximum overcoating times and note these will vary with climatic conditions. Any further application of coating at this juncture should be treated as a repair, with the surface flash blasted to provide a physical key.

Cleaning fluid

Acetone or Methyl Ethyl Ketone before gel.

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Cure time

At 68°F (20°C), 90% cure will be attained within 8 hours. Full cure for chemical resistance will be 6 days. Cure time may be shortened and a beneficial increase in final cure may be attained by heat treatment. Consult Corrocoat USA for specific information. Although not fully cured, after gel has occurred, this product may be immersed in some environments without detriment to the coating.

Reviewed 12/2011
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 any further information be required, please consult Corrocoat Technical Services.