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Product title: Corroglass 652

Valid from: 4th October 2007

Last reviewed: July 2020

Type

Corroglass 652 is a vinyl ester glassflake coating cured by the addition of organic peroxide.

Suggested use

Light duty immersion and atmospheric conditions or as a surface veil for heavy duty grades.

Limitations

Not suitable for some highly polar solvents.

Health & safety

Refer to the chemical resistance list. Affected by some highly polar solvents and some solutions having a high pH above 50°C.

Surface preparation

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

Concrete: refer to Corrocoat SP5.

Coating of the substrate should then take place as soon as possible. Corroglass 652 can be applied directly to the substrate, however, it is more often applied as part of a 600 series system along with Corroglass 602 and 632, in which case Corroglass 632 is generally used as the primer.

Application equipment

Brush, Roller, Trowel or Special Spray.

Application

As a surface veil in a single coat of approximately 200 microns or as required.

When used direct to substrate, use multiple coats to achieve

desired thickness. A minimum DFT of 350 microns is recommended.

When applying, each subsequent coat of material should be of a different colour to the previous one to ensure full and even coverage. Only the recommended dye for the product should be used. Dyes can affect chemical and corrosion resistance in some environments and the advice of Corrocoat UK should be sought where the material will work close to either its chemical resistance or temperature limit. In some environments, dyes are not colour stable and a change in colour may take place in service which is not detrimental to coating performance.

Mixing ratio

Corroglass 652 can be catalysed within the ratios of 100:1 parts base to catalyst by weight to 100:3 parts base to catalyst by weight. The ratio should always be within these limits, 2% addition of catalyst being the norm with a reduction being made for high ambient temperatures.

Mixing

Weigh out only the proportion of material which can be used within the pot life and place into a suitable mixing container. Measure the correct proportion of catalyst for the amount of base and carefully add this to the base using a suitable clean implement. Mix thoroughly then add dye where necessary and mix to an even colour.

Pot life

25 to 30 minutes at 20°C. Pot life will be shorter at higher temperatures and longer at lower temperatures. Where higher

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temperatures are encountered, refrigerate material before use or seek the advice of Corrocoat UK for availability of inhibitor or material with longer pot life.

Thinners

Corroglass 652 is adversely affected by the addition of **solvents** and their use is prohibited. Styrene may be used as a thinner up to a maximum addition level of 5%, but the addition of Styrene may substantially affect the chemical resistance of this product. **No other diluents or thinner should be used.** The use of acetone or similar thinners in Corroglass **will severely affect** product performance.

Packaging

20 Litre composites.

Storage life

Base and catalyst (Hardener) 6 months, stored at temperatures below 20°C, away from heat sources and out of direct sunlight. Frequent temperature cycling will shorten storage life. See 'other information' in the Corrocoat 'Tech Manual' for extension of shelf life.

Colour availability

Pigmented White. Dyes can be used to effect colour change.

Recommended DFT

0.5 to 1.0mm in multiple coats. Or as advised.

Theoretical spreading rate

1.25kg per square metre at 1mm thickness.

Volume solids

99.5% solvent free.

Practical spreading rate

1.3kg/M2 at 1mm.

Note: This information is given in good faith but may increase

dependent upon environment 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

1.18 gms/cc.

Flash point

38°C.

Catalyst type

Methyl Ethyl Ketone Peroxide: Corrocoat Type P2.

Mixing ratio

100:1 to 100:3 base to catalyst.

Hardness

42 Barcol (approximate).

Elongation

1.4%.

Dielectric strength

16 x 10³ V/mm. Arc resistance 40 seconds minimum.

Temperature limits

110°C immersed as surface veil.

90°C immersed.

185°C non-immersed.

Overcoating

May take place as soon as previous coat has gelled sufficiently to resist movement of next application and whilst still tacky. Maximum overcoating without treatment: 3 days. Shorter at ambient temperatures above 30°C. Shorter at ambient temperatures above 30°C.

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Cleaning fluid

Acetone or Methyl Ethyl Ketone before gel.

Cure time

At 20°C, 90% cure will be attained within 10 hours. Full cure for chemical resistance will be between 6-8 days. Full cure times will be shorter at higher temperatures and longer at lower temperatures.

Although not fully cured, after gel has occurred, this product may be immersed in some environments with only slight detriment to the immediate surface of the coating, the cure process continuing even when immersed.

Reviewed 08/2007
Reviewed 02/2014 (no changes)
Reviewed 05/2016 (no changes)
Revised 05/ 2019
Revised 07/2020

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 further information be required, please consult Corrocoat Technical Services.