

CORROGLASS

Corroglass AR4

Product reference: 1/15

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Product title: Corroglass AR4

Valid from: 27th November 1997

Last reviewed: 31 May 2019

Type

A two-pack cold cured brominated vinyl ester/acrylic co-polymer enhanced with flake glass.

Suggested use

Corroglass AR4 has been specially formulated to offer the best resistance to base environments, e.g. Sodium Hydroxide and Sodium Hypochlorite, the resin and cure system having been modified to impart the optimum resistance to these environments.

Health & safety

Before commencing work, read the product Health & Safety data sheet. Corroglass AR4 should only be used by adequately trained personnel.

Surface preparation

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

Concrete: Grit blast to remove surface laitance. See Corrocoat Surface Specification SP5.

Application equipment

For spray application use a Graco King 45:1, or similar, airless pump, 10mm diameter (3/8") nylon spray line. Large bore mastic type gun with 30 to 60 thou reversible or titan adjustable tip. As a guide, a typical tip size would be 31-35 thou with a 60° fan pattern. The size of tip and fan pattern will vary dependent upon the nature of the work.

May be hand applied using a brush, roller or trowel.

Application

Corroglass AR4 is normally applied at wet films between 500 and 1000 microns.

Mixing ratio

98:2 Base: Hardener

Hardener type

Catalyst type - Organic Peroxide.

Pot life

Approximately 55-65 minutes at 20°C (may vary dependent upon temperature and age of product).

Thinners

The performance of Corroglass AR4 may be significantly affected by the addition of styrene. **DO NOT ADD SOLVENT THINNERS.**

Packaging

20 Litre composite kits.

Storage life

6 Months if stored at temperatures below 20°C and away from direct heat and sunlight.

Colour availability

Unpigmented or off-white.

Recommended DFT

500 - 3000 Microns dependent upon service conditions.

Theoretical spreading rate

1.33m²/Litre at 750 microns.

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Volume solids

This material contains volatile liquid convertible to solids. Volume solids obtained will vary dependent upon 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 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.

Hardness

45 Barcol.

Overcoating

May take place as soon as the previous coat has gelled and whilst still tacky. Maximum overcoating time 72 hours at 20°C.

Once the maximum overcoating time has been reached, the 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 flashed over to provide a physical key. Styrene cannot be used to reactivate the surface and may in some cases impair adhesion.

Elongation at break

0.3%

Dielectric strength

18 - 25 x 10³ V/mm

Tensile strength

26.5 N mm⁻² (3845 PSI)

Temperature limits

Dependent upon environment.
82°C Immersed

Curing time

Tack free after 24 hours at 20°C. Full cure after 4 days. For best results and in most environments, a post cure of 4-6 hours at 60-80°C is recommended prior to service. Refer to Corrocoat Technical Services for further details.

Cleaning solvent

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

Reviewed 10/2007 (No changes)
Reviewed 02/2014 (No changes)
Reviewed 05/2016 (No changes)
Revised 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 further information be required, please consult Corrocoat Technical Services