



REF CECR 2015 07

R.S. Cemcrete

DESCRIPTION

R.S. Cemcrete is a polymer/cement based product designed to be laid over a wide range of floor and wall surfaces to provide a durable finish strongly bonded to the substrate with a degree of flexibility to enable the accommodation of movement in the structure of the building. R.S. Cemcrete can be applied in exterior or interior situations and can be smooth or textured as required, an aggregate can be added if required for texture.

ADVANTAGES

- Can be built up to achieve a range of thicknesses and finishes in applications
- Elastomeric allowing for the accommodation of structural movement
- Water based
- Ease of application, with good working time and application properties
- Can be used both internally and externally
- Can be used as a floor or wall coating

RECOMMENDED USES

- Exterior floor finishes—driveways, walkways and footpaths
- Interior or exterior anti-slip finish
- Vertically—smooth version can be used as a wall render
- Internal and exterior car parks
- Public concourse areas
- Ship decks
- Can be used on various substrates. R.S. Cemcrete will adhere to a wide range of substrates including concrete, wood, asphalt, steel, glass, slates, lead, galvanised or corrugated iron, bitumen based materials, expanded polyurethane foam, fibreglass, asbestos and mineral based tiles etc. (different substrates have different requirements for priming, consult RSL for further details)

PRODUCT INFORMATION

System thickness	Solids content by weight	Pack sizes	Pack make up	Shelf life	Storage
1000 microns (wet)	Resin 25 %	34 kg. & 68 kg.	34 kg. one base to one bag of aggregate	Liquid 12 months (unopened)	Keep out of direct sunlight. Store in a dry place, not below 15°C
650 microns (dry)	Aggregate 100 %		68 kg. one base to two bags of aggregate	Aggregate : 3 months	

DRYING TIMES & COVERAGE RATES at 20°C

Coverage rate	Pot life	Recoat time	Light traffic	Full traffic	Full chemical cure
34 kg. unit will cover 19 m ² @ 650 microns	2 hours	4 - 6 hours in good drying conditions prior to a second coat	Overnight	3 days	7 days



Specification

Product : R.S. Cemcrete

Finish : smooth or textured

Thickness : 1.5 mm (2 coats)

Colour : Grey or White

Products required for this system

Prime : R.S. Cemcrete base or mist of clean water

System : R.S. Cemcrete

Surface Seal : Internal - Resucryl, Resuseal WB or Resucoat HB
External - Resucryl, Resupen WB Resutile

Preparation

All surfaces must be clean and free from all loose materials, oil and grease etc. Where appropriate the use of grinding or vacuum shot blasting on floors should be considered to achieve a clean surface with a sound key. Defects in existing surfaces should be made good, before the application of the **R.S. Cemcrete**. Where evidence of organic growth, lichen, moss etc. is apparent, surfaces must be thoroughly cleaned and should be treated with a long term fungicidal/biocidal treatment which should be allowed to react and then washed down. Careful attention should be given to areas in both horizontal and vertical surfaces such as cracks and joints where water penetration is possible.

R.S. Cemcrete should be applied where there are good drying conditions and the ambient temperatures of the area and substrate should not be allowed to fall below 5°C throughout the application and the curing period.

Priming

Absorbent porous surfaces such as brickwork, asbestos, woodwork and crumbling friable concrete should first be primed with a solution of **R.S. Cemcrete** and water 1:1 by volume. This should be evenly applied, worked into the surface and allowed to dry. Sound dense concretes should be dampened (with no free water) with a water spray.

Application

R.S. Cemcrete can be applied by a variety of techniques including trowel pin rake, brush, squeegee etc.

Each coat should be evenly applied and allowed to dry before the next is applied. Where specific finishes are required it is recommended that trials are undertaken to ensure that the techniques are understood and able to be used on the surface available.

R.S. Cemcrete can be coated with clear or coloured coatings including **Resucryl**, **Resuseal WB**, **Resucoat HB** or **Resupen WB** which provides a brighter finish enhances ease of cleaning.

Grades

R.S. Cemcrete is available in two grades and two Colours.

Finishes	Smooth and Textured
Colours	White and Grey

Pigment packs can also be supplied to through colour **R.S. Cemcrete**, however these are subject to minimum order and a limited colour range.

Please consult RSL Technical Service for further information.

Category Guide

FeRFA Category : 3

Technical Information

The following figures are obtained from laboratory tests and our experience with this product .

Slip Resistance	Dry > 75 product dependent
Method BS7976 pt1-3 2002	Wet > 55 product dependent

The slip resistance of a floor surface can vary as a result of the installation process, conditions at the time of application and subsequent traffic. Inappropriate cleaning or maintenance can adversely affect the performance. For further advice on potential wet areas please consult RSL.

Abrasion Resistance

Method BS8204 /ASTM D4060

Temperature Resistance	Tolerant of sustained temperatures of up to 100°C
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Chemical Resistance	Consult RSL for Further details
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Adhesion Strength	Greater than 2 N/mm ²
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Elongation at Break	Base resin 300% (Din 53504)
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Tensile Strength	1.0 N/mm ² (Din 53504)
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VOC	< 5 g/l Calculation based on a full unit
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Life Expectancy	4 years plus Subjected to Industrial traffic RSL terms and conditions will apply
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Maintenance and Cleaning

RSL recommend that **R.S. Cemcrete** should be cleaned with a regular industrial cleaning regime with a floor scrubber utilising **R.S. Industrial Floor Cleaner** or similar with dirty water being removed. Isolated localised cleaning can be carried out using **R.S. Tyre Mark Remover**, **R.S. Fats & Grease Remover** & **R.S. Oil Remover**.

All surfaces should be thoroughly rinsed with clean water after the use of chemical cleaners.

Please refer to RSL Data Sheet CLNG for Cleaning Advice

Health and Safety

R.S. Cemcrete is formulated from materials designed to achieve the highest level of performance as safely as possible. However, specific components require proper handling and suitable equipment, this information is given in the relevant safety data sheets. In all cases, spillages or skin contamination should be cleaned as soon as practically possible, by dry wiping of the affected area, and thorough washing with soap and water.

The information given in this data sheet is derived from tests and experience with the products and is believed to be reliable. The information is offered without guarantee to enable purchasers to determine for themselves the suitability of the product for their particular application. Any specification or advice given by the Resin Surfaces Limited or its agents is based on the information supplied by the purchaser. Resin Surfaces Limited cannot be held accountable for errors or omissions as a result of that information being incorrect or incomplete. No undertakings can be given against infringement of patents. Some materials are derived from natural sources. As such some variation may occur. Site conditions may also contribute to variation in finish and colour.

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