



RX CERA GUARD 5000

RX Cera Guard® systems use the latest coating technology combined with glass flake protection and anti-bacterial properties to provide a range of fluid applied coating systems, providing the ultimate seamless protective barrier.

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A food safe coating system for walls and specialist areas

The ultimate, seamless food safe coating system for walls and other specialist areas such as hand basins and baths. The system contains reinforced glass flakes which combines with a liquid plastic resin to provide a highly impervious protective barrier. Cera Guard 5000 can be applied to almost any surface, including glazed tiles, brick, concrete, plaster and wood. Resistant to oils, fats and greases and a wide range of chemicals. Cera Guard 5000 will not discolour in UV light.

Description

Coloured semi-gloss water based epoxy coating system. RX-Ceraguard is an easy to use, twin pack, water based, epoxy coating system for use on walls and floors. The finished system provides an easily cleaned and attractive semi-gloss or satin finish. The water based system makes it environmentally friendly and easy to apply with low VOC's which could affect processes nearby. Totally dry surfaces for coating are not imperative as it is not sensitive to dampness and may be applied to green concrete.

Features & benefits

1. Kills life threatening bacteria
2. Food safe when cured
3. Excellent chemical resistance
4. Very flexible
5. Will not discolour
6. Easy to clean
7. Hygienic and scrub resistant.
8. Vapour permeable - allows floors to breath.
9. Can be applied to damp substrates (i.e. green concrete)
10. Cost effective
11. Easy to apply with roller or spray equipment
12. Enhances appearance of working environment
13. Solvent free
14. Low odour
15. Compatible with cement for scraper coats



Applications

- Food process areas
- Breweries
- Dairies
- Kitchens
- Workshops
- Storerooms
- Garages
- Light industrial areas
- Anywhere where cleanliness is imperative

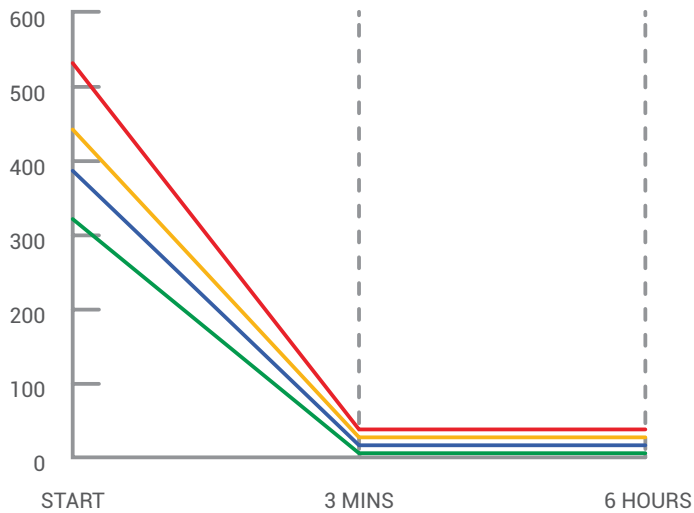
Advantages

- Hygienic and scrub resistant
- Non toxic
- Vapour permeable – breathable
- Damp and green concrete tolerant
- Cost effective
- Easy to apply by roller or spray methods
- Attractive durable finish
- Solvent free
- Cement compatible for scraper coats
- Flexible and long lasting
- For floors and walls

The challenge

Panels coated with the Cera Guard® system* were tested using the following strains:

- Staphylococcus aureus NCTC 06571
- Eschericia coli NCTC 08196
- Salmonella poona MAFF QA Ref 2582
- Listeria monocytogenes NCIMB 50007



Strain	Inoculum	@ 3 mins	@ 6 Hrs
Staphylococcus aureus	394	24	0
Eschericia coli	450	0	0
Salmonella poona	530	8	0
Listeria monocytogenes	330	0	0

NB: Figures are colony-forming units recovered by a standard swabbing technique from a 10cm² area or, in the case of the inoculin figure, a calculation of the load per 10 cm² derived from the count on the inoculum.

* figures relate to Cera Guard ©

Technical Information

Mix Ratio:	4:1
Pot Life:	45 min
Thermal Resistance:	BS476: Part 7 Class 1 Surface spread of flame
Slip Resistance:	TRRL Pendulum Slip test Dry 70 Wet 40
Thermal Resistance:	Tolerant up to 70°C
Vapour Permeability:	ASTM: E96: 90 20g / m ² / mm / 24hrs
Surface Hardness:	182 seconds Koenig Hardness test
Chemical Resistance:	Request from Robex SA
Abrasion Resistance:	Taber Abrader: 15 mg loss per 1000 cycles (1kg load using CS17 wheels)
BS8204:	Part 2 Class AR3
Bond Strength:	Greater than cohesive strength of 25N/mm ² concrete > 1.5mPa

Model Specification

Product:	RX-Ceraguard
Finish:	Semi gloss/satin
Thickness:	0.12 mm dry film thickness in 2 coats
Colour:	Various (as per colour chart)

Preparatory work and application in accordance with supplier's instructions.

Curing Time

	10°C	20°C	30°C
Light traffic	24hrs	12hrs	8hrs
Full traffic	36hrs	24hrs	16hrs
Full chemical cure	14 days	7 days	5 days

Products Included in this System

RX-Ceraguard Resin + Hardener

Detailed application instructions are available upon request.

Health & Safety

Some of the components of this product may be hazardous during mixing and application. Please consult the relevant Health & Safety Data Sheet available from Robex SA on request.

Packaging

5 and 25L twin pack kits

Environmental considerations

The finished system is assessed as non-hazardous to health and the environment. The long service life and seamless surface reduce the need for repairs, maintenance and cleaning. Environmental and health considerations are controlled during manufacture and application of the products by Robex staff.

Shelf Life

6 months in unopened containers kept cool & dry and protected from freezing.

Directions:

Installation Service

The installation should be carried out by a fully trained Robex application team.

Substrate Requirements

Concrete or screed substrate should be a minimum of 25N/mm², free from laitance, dust and other contamination.

Preparation

Concrete or screed substrate should be a minimum of 25MPa, free from laitance, dust and contamination. Old or worn coatings should be lightly ground off to profile and texture the surface for sufficient bonding. Repair defects in the floor with Floorguard Primer (6 hour overcoat), see the relevant technical datasheets for further information. Dirty floors to be coated should be cleaned thoroughly, and etched to open up the porosity for better substrate penetration. Ensure all dust has been vacuumed from the substrate surface.

Mixing

Mix the Part A and Part B together thoroughly with a mechanical mixing tool for a period of 3 minutes and then use the product immediately. As a general rule when coating floors with epoxies it is advisable to pour the mixed product out onto the floor, spread with a trowel and back roll to obtain a uniform finish. This extends the working time considerably.

Porous floors, i.e. floors that absorb water rapidly, should be given a first coat and allowed at least 12 hours to partially cure. Rough concrete surfaces may require a scraper coat that will require a portion of cement powder to be added to the mixture to produce a viscous levelling scraper coat. Dense floors, such as those that have been power floated to a smooth finish, should be acid etched with Concrete Etchant, rinsed thoroughly and then neutralized with Liquid Action. This ensures better penetration into the floor and subsequent improved adhesion.

Application

Apply RX-Ceraguard Epoxy with a PVA/Mohair paint roller or brush. RX-Ceraguard Epoxy may also be applied by spray methods. When the first coat is thoroughly touch dry, apply the next coat at right angles to the first coat. Do not leave more than 12 hours between coats. To ensure inter-coat adhesion is adequate, a light sanding of the coating is recommended in cases where subsequent coats are applied later than 12 hours.

Maintenance

Clean regularly using a single or double headed rotary scrubber drier in conjunction with a mildly alkaline detergent such as Liquid Action (see datasheet).

Aftercare - Cleaning and Maintenance

Clean regularly using a single or double headed rotary scrubber drier in conjunction with a mildly alkaline detergent.

Conclusion

There appears to be a rapid diminution in the numbers of viable micro-organisms applied to Cera Guard[®] coated panel. All four species tested were drastically reduced in numbers or eradicated after 3 minutes contact with the panel. At 6 hours eradication was complete.

Contact us

Get in touch with our team for any enquiries:

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