

High-performance silicate Material improving penetration of inorganic concrete

RC-GUARDEX

RC-GUARDEX waterproofs
for the life of the structure



▲ Rooftops

WHAT IS RC-GUARDEX?

RC-GUARDEX is a High-performance silicate which is sprayed onto cured concrete. It forms a barrier inside the concrete which waterproofs and protects the concrete for the design life of the structure.

RC-GUARDEX reacts with calcium to form a water insoluble calcium silicate hydrate gel that seals cracks in the concrete up to 2.2mm and will remain reactive in the concrete to seal future hairline cracks in the presence of water.

Unlike waterproofing membranes which typically last for 10-15 years before requiring a disruptive and expensive replacement, RC-GUARDEX is **ONCE ONLY WATERPROOFING** that will continue to waterproof for the entire design life of the project.

RC-GUARDEX is not just waterproofing - it is concrete protection, making it perfect for wharfs, bridge decks, tanks etc that need protection from corrosion caused by the ingress of chloride and harmful chemicals.



WHY USE RC-GUARDEX?

OWNER/DEVELOPER

- ▶ Once only application that waterproofs for 100 years +
- ▶ Earn LEED/BCA points
- ▶ No future re-application
- ▶ No leakage = happy tenants
- ▶ No future maintenance costs
- ▶ Economical
- ▶ Super fast application speeds construction and saves \$\$\$

CONSULTANT

- ▶ Proven technology
- ▶ Design flexibility
- ▶ Saves \$\$\$
- ▶ Earn LEED/BCA points
- ▶ Allows omission of screed
- ▶ Waterproofs for design life
- ▶ Simple, fast application
- ▶ Worldwide technical support
- ▶ Speeds project times

MAIN CONTRACTOR

- ▶ VERY Contractor-friendly
- ▶ Trafficable 6 hours after application
- ▶ Podium can immediately be used as a work area
- ▶ Cannot be damaged by other trades
- ▶ One coat application
- ▶ No screed. Saves time and \$\$\$
- ▶ Concrete protected from other trades
- ▶ Saves manpower
- ▶ Super-fast application speeds construction and avoids liquidated damages claims

▼ Bridge Decks

▼ Shopping Centre Rooftop



▼ Wharf & Marine Structures

BENEFITS OF RC-GUARDEX?

- ▶ RC-GUARDEX waterproofs for the life of the structure
- ▶ Permanently seals cracks up to 2.2mm
- ▶ Seals future hairline cracks on contact with water
- ▶ Protects against water, chloride and sulphate ingress; increases resistance to chemical attack
- ▶ Hardens concrete to the same level as granite
- ▶ Increases the bond of concrete to cementitious materials by 27%
- ▶ Does not require a screed
- ▶ Suitable for ponding water
- ▶ Non toxic. Suitable for use with potable water
- ▶ Withstands hydrostatic pressure
- ▶ Environmentally friendly – earn LEED points
- ▶ Withstands thermal stress
- ▶ No expensive re-application in years to come
- ▶ Simple one coat application. No de-bonding as with membranes
- ▶ A system approach
- ▶ Cost effective
- ▶ Super fast application ensures faster project completion and saves \$\$\$

A LEAK-FREE PROJECT

RC-GUARDEX is applied only by fully trained Approved Applicators who are experts in the application of the product. Concrete Waterproofing Systems provide full training to all Approved Applicators worldwide.

All Applicators are approved on an annual basis to ensure strict quality control and up-to-date procedures.

We are not just offering you a product, we are giving you a result: a LEAK FREE PROJECT.

THE RC-GUARDEX SYSTEM

RC-GUARDEX forms part of a complete WATERPROOFING SYSTEM.

Delivering a leak free project result depends on correct procedures for the entire project, not just waterproofing of a concrete slab.

Depending on specific project requirements, this means using ancillary products as appropriate to create an entire waterproofing system:

- RC-GUARDEX for both horizontal and vertical concrete slabs
- Waterstops for joins and penetrations
- Appropriate ancillary products to volatile or structural cracking
- Appropriate ancillary products where required on specialist projects

Our Company's name, Concrete Waterproofing SYSTEMS, is indicative of our approach to waterproofing your project: we don't just supply a great product, we use a SYSTEM APPROACH to ensure the entire requirements for a LEAK FREE PROJECT have been thought out and delivered.

▲ Carpark



▲ Podium Deck

TYPICAL APPLICATIONS

Because of its ability to withstand thermal stress and its super-fast application RC-GUARDEX is particularly suitable for areas of exposed concrete such as:

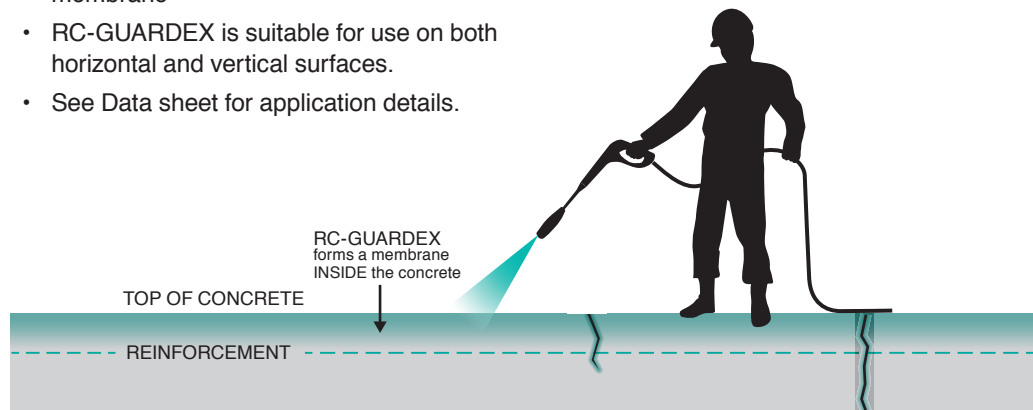
- ▶ Rooftops and podium decks
- ▶ Bridge decks
- ▶ Landscaped areas
- ▶ Pre-cast panels
- ▶ Wharfs and marine structures
- ▶ Water tanks
- ▶ Car Parks



▲ Water Tanks and Treatment Tanks

SUPER-FAST APPLICATION

- RC-GUARDEX is suitable for use on properly vibrated structural concrete with a minimum of 20 mpa.
- Super fast application: application is by low pressure sprayer and one person can apply about 6000m² per day compared to 100m² per day for a membrane
- RC-GUARDEX is suitable for use on both horizontal and vertical surfaces.
- See Data sheet for application details.



TECHNICAL DATA

Refer to our datasheet for all technical data

PACKAGING AND STORAGE

Available in 20 litre and 200 litre drums. RC-GUARDEX has no known shelf life but must be kept in a sealed container and out of direct sunlight. Store between 1°C and 60°C. Do not freeze. Stir prior to use.

BECOME A DISTRIBUTOR

GROW YOUR BUSINESS and increase your profits by building a RC-GUARDEX distributorship. We provide full training, marketing and technical support: Contact us now for details at info@concretewps.com

WARRANTY

Concrete Waterproofing Systems Ltd warrants that the products manufactured by it conform to the formulation standards contained in all components in their proper proportion and are free from material defects. If any of the products are found to be defective the subsequent liability to Concrete Waterproofing Systems Ltd shall be limited only to the replacement of the product proven to be defective and shall not be liable for any other claim or for incidental or any consequential damages that may arise directly or indirectly with the said defective product. The user shall determine the suitability of the product for its intended use and the user assumes all liability in connection therein and Concrete Waterproofing Systems Ltd shall not be liable save for terms of this warranty.

AUTHORISED DISTRIBUTOR



▲ Podium Deck

NKS USA LLC

Post office
2523 Glenwood Park New Albany, IN 47150-1541
☎ 502-931-8436 ✉ nnakamura@gol.com

