GoonaGuard

Corrosion Protection With All the Bugs Sorted

Description.

GoonaGuard is a proprietary inorganic/organic hybrid coating especially designed for the protection of sanitary sewer structures, where remote application is considered desirable or a necessity or where full rehabilitation requires additional planning.

It is easily conveyed over long distances and can be remotely applied over all waste water surfaces either wet or dry. It requires minimal preparation and has a rapid return to service (most structures can be applied live).

GoonaGuard can also be used as a base/primer for future works or built up to form full depth rehabilitation with multiple layer applications.

Benefits

GoonaGuard utilises a combination of proven technologies which are individually biogenically corrosion resistant/toxic to most bacteria and fungi found in urban waste water systems. Combined together these technologies form an active barrier that reduces the ability of the microorganisms to reproduce and produce acid by-products.

Key ingredients in GoonaGuard are resistant to most of the acids found in waste water networks and its corrosion additional acids on the surfaces of structures.

Pacifying to steel – GoonaGuard has a high relative alkalinity and pH and readily adheres to most metallic surfaces, aiding in not only the longevity of the structure itself but also he equipment found in them.

GoonaGuard readily adheres to most surfaces in waste water networks, including: concrete, vitreous clay, stainless steel, galvanised iron, brick, plastics and some organic coatings.

Readily adheres to new structures without the need for aggressive preparation reducing the time needed for the application process. This also reduces the risk of delamination due to poor preparation prior to application. GoonaGuard has high bond strength similar to most commonly available organic coatings.

The high Flexural strength and bridging properties assist in long term adhesion in structures which are not entirely stable or able to be deformed.

GoonaGuard's active nature (it is sacrificial medium to long term) means that some of the ingredients will be used up over extended periods of time but even with repeated wetting, it will not wash off or dissolve.

resistant nature prevents the formation of when remote application is not needed.

Light reflective-light colour aids in future inspections reducing the need for strong lighting.

Contains recycled material making it environmentally sustainable.

It has a relatively high pH and Neutralisation capacity allowing it to neutralise more acid found on the surface of waste water structures (produced by the bacteria) and is essentially acid resistant.

Requires relatively inexpensive application equipment and is easy to apply. GoonaGuard does not require curing like most cementitious coatings.

Installation

Preparation

GoonaGuard requires minimal preparation to achieve an adequate bond.
The preparation requirements for GoonaGuard are usually achieved via high pressure water. Mechanic scabbling or similar can also be used effectively when conditions allow. All loose material should be removed to obtain high bond strengths and ensure longevity. Surfaces can be moist or dry prior to application.

Application

GoonaGuard is best applied via low pressure wet spray application. It can easily be conveyed over long distances in small to medium diameter hose. Remote application is possible with purpose made but simple robotic equipment. Regular application where man entry is possible utilises commonly available low pressure equipment.

Cleanup

All equipment should be thoroughly cleaned with water as soon as practically possible after use.

Curing

GoonaGuard requires no curing but shows improved mechanical properties when exposed to a moist environment such as that found in live waste water Structures. Accelerators can also be

Can be hand applied or easily sprayed with commercially available equipment used where required to allow for rapid return to service where sudden inflows are anticipated.

Safety

GoonaGuard was designed with worker safety in mind But!
• Always refer to the Safety Data sheet before use.
• Wear appropriate PPE
• Avoid contact with skin and eyes.
• Avoid inhalation of any dust.

Typical Properties

Age (days)	1	28
Compressive Strength (MPa)	15	40
Flexural Strength (MPa)	5	10
Bond Strength (MPa)	2	3