BCS-Prokon Contractors Pte Ltd

Established in 1985

Private Limited Company

Provide Specialise

Services & Solutions

In:

Waterproofing

Industrial Flooring

Fireproofing of Steel Structures

Concrete Repair and Restoration

The Vision:

To provide quality solutions in
Waterproofing,
Fire Protection,
Industrial Flooring,
Concrete Protection & Repairs,
that will enable the Maintenance and Construction of
Better Engineering Structures and Buildings.

The Aim:

The overall aim is to provide the Industry with an experienced and trained team of specialists to carry out the works as recommended and specified.

To facilitate the above, the company will strive:

- To foster a healthy and mutually beneficial relationship with clients by working closely with them to fully understand their requirements and needs.
- To establish a mutually beneficial business relationship with Manufacturers and Suppliers, so as to remain competitive in the latest products and services.
- To provide regular training to installers and specialists.
- To provide the necessary tools and right equipment to carry out the works properly.
- To ensure all works are carried out in the most efficient, timely and cost-effective manner.



Waterproofing

WATERPROOFING

BCS-PROKON CONTRACTORS (PTE) LTD has positioned ourselves as a specialist waterproofing contractor, as we do not carry any specific brand of waterproofing product either as an agent, distributor or supplier.

Our philosophy is that in today's complex engineering and architectural design no one product from any particular manufacturer would be able to meet the specific needs of waterproofing every part of the building or civil engineering project.

Some of the manufacturers that we have been approved to execute their systems includes WR Grace, BASF (formerly known as Degussa-MBT) Grunau, 3M, SIKA, MC Bauchemie, Fosroc etc…. These companies and BCS-Prokon have found it to be mutually beneficial to work hand in hand as we provide the project management and a team of trained workers to ensure compliance of their installation conditions. On the other hand, we prefer manufacturers with local representation so that adequate technical back-up service is available to all our clients at all times.



WATERPROOFING

Our workforce is competent to install waterproofing system that are pre-formed sheet membranes and single / multi-component liquid-applied seamless membranes. The waterproofing, membranes may be self-adhesive, loose-laid, mechanically fastened or heat welded. With this in-depth knowledge of various products and their application process, our strength lies in our ability to recommend build-up roof systems for different shapes, sizes and functions. Other building areas waterproofing by us includes the walls, the wet area (bathrooms, toilets, kitchen, balcony) and basement walls and floors. Our scope also extends to the landscape area, swimming pools for building project and tunnels, roads, reservoirs or civil engineering works. Re-roofing works, which are usually quite complex and difficult, have also been executed by us .



Preformed Torch On Membrane



Liquid Applied Elastomeric System



Preformed Self-Adhesive Bituminous Membrane



Liquid Applied Cementitous Coating



Preformed PVC Membrane



2 Component Sprayed-On Fast Cure Polymer Membrane

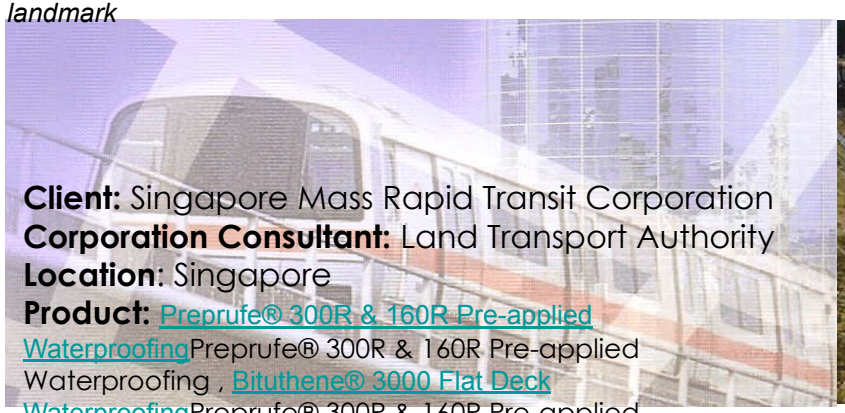
WATERPROOFING

BCS-PROKON CONTRACTORS install approximately more than 200,000 m2 build-up roofs, substructures and other civil engineering project annually. These are completed almost exclusively by our in-house team of installers. They are supervise by competent supervisors and project managers that are trained both within the company and with different manufacturers of the waterproofing systems that we worked with. Some of these courses were even conducted at their countries of manufacturer including Germany, UK, Australia, Malaysia etc. We are installing waterproofing system to the CircleLine MRT, the Changi Water Reclaimation Plant, etc
Notable Projects Completed are the NorthEast Line Metro and Parliament House.



Client: Singapore Government
Consultant: Public Works Department
Location: High Street, Singapore
Product: Bituthene® 3000 Substructure Waterproofing

The Parliament of Singapore moved to this new Parliament House alongside the Singapore River in September 1999. The new building lies on one of the oldest inhabited areas in Singapore. About 20,000 square metres of Bituthene® 3000 waterproofing membranes were applied to the basement of this landmark

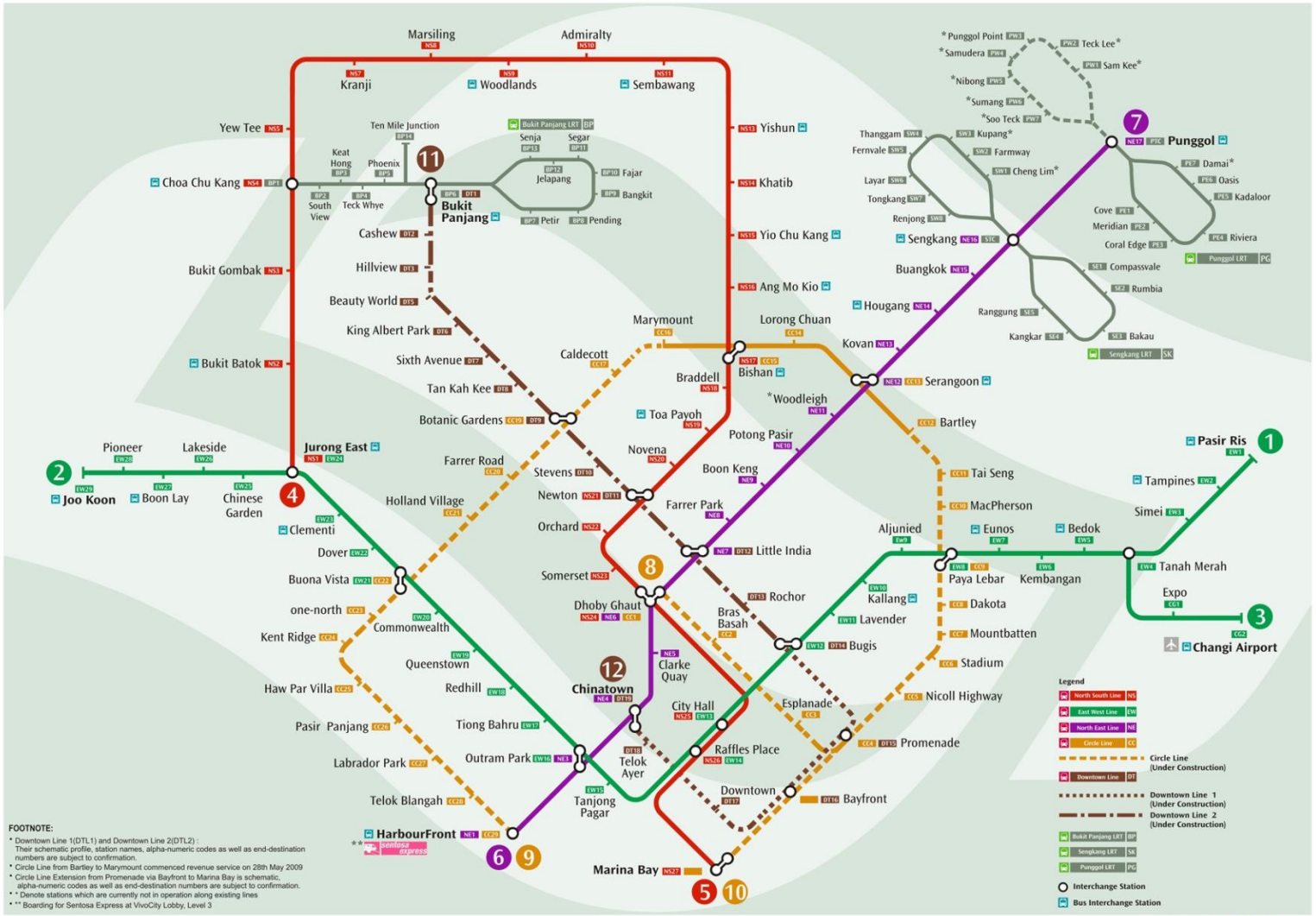


Client: Singapore Mass Rapid Transit Corporation
Corporation Consultant: Land Transport Authority
Location: Singapore
Product: Preprufe® 300R & 160R Pre-applied WaterproofingPreprufe® 300R & 160R Pre-applied Waterproofing , Bituthene® 3000 Flat Deck WaterproofingPreprufe® 300R & 160R Pre-applied Waterproofing , Bituthene® 3000 Flat Deck Waterproofing and Bituthene® 3000 Substructure Waterproofing

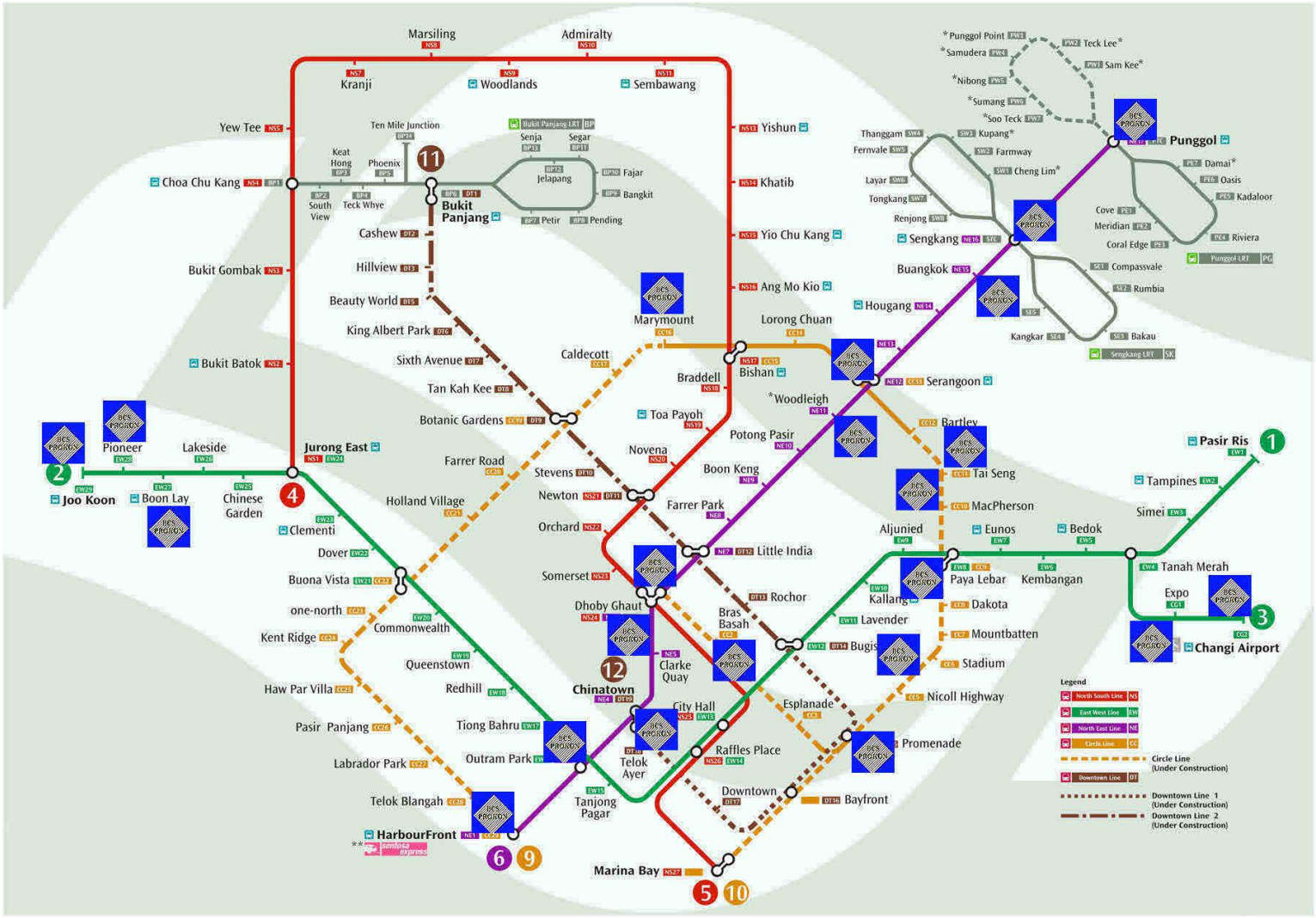


In the previous constructions of the MRT tunnel tracks and stations, Grace's Bituthene 3000 waterproofing membranes have been successfully used. With the North East and Changi East lines, we are the first applicator in this region to use the new Preprufe Membrane System of waterproofing membrane from Grace. Preprufe's unique bonding system is the solution to MRTC's concerns with ground settlement problems. A total of 500,000 square metres of Preprufe 300 and Bituthene 3000 were applied, to the tunnel base slabs and walls respectively. The two lines were completed in 2002 with BCS-Prokon accounting for more that 50% of waterproofing to stations and cut & cover tunnels.

MRT & LRT System map



BCS-Prokon MRT Projects



Commercial & Industrial Buildings













Hotels, Apartments & Condominiums















Project: Vivo City Mall
Client: Harbour Front Investments
Consultant: DP Architects
Location: Harbour Front, Singapore
Product: Conipur Waterproofing



Project : Waste Water Treatment Plant
Client: Water Authority
Consultant: CH2Mhill & CPG
Location: Changi, Singapore
Product: Conipur Waterproofing

Resort World Sentosa



Waterproofing & Fireproofing Contract

Waterproofing & Fireproofing Contract

Waterproofing To CarPark Deck















Fireproofing

FIREPROOFING

We are very familiar with most of the fireproofing products available in the local market and in fact have been an applicator for W R Grace (Singapore) Pte Ltd range of fire protection coating and waterproofing products. This arrangement between W R GRACE (SINGAPORE) PTE LTD as the world's leader in the manufacturing of such products and we as their trained applicator has been going on for approximately 10 years now. Our customers are always assured that a reputable international manufacturer based here locally (with a manufacturing plant) is on hand to service them, and all their products that are being applied in accordance to their requirements. We as their applicators are also constantly upgrading our skills and equipment under their advice so as to increase our proficiency and level of service.

CARBOLINE, which is the manufacturer of fire proofing material for Petrol Chemical industries is another of our suppliers. M/s Chevron Philips' chemical plant in Jurong Island is one of our references.

A list of some of our job reference for our fire protection projects are attached for your information. They would have include both the public and private sector projects. Amongst the projects that have been managed by us include the prestigious Monetary Authority Of Singapore And Treasury Building, Singapore Post Building, Raffles City, Marina Square, Cecil Court, Bayview Hotel, Concorde Hotel .etc These are some of the largest structures to be erected locally.

We are involve with the upgrading of the old and building of the new terminals in the Singapore Changi Airport. Notable projects completed are the National Library, Supreme Court Building and the Esplanade.







The Esplanade Fireproofing Monokote MK-6/HY

Project: The Esplanade
Client: Singapore Government
Architects: DP Architects & Micheal Wilford & Partners
Location: Singapore
Product: Monokote® MK-6/HY

Esplanade – Theatres on the Bay complex includes five auditoriums, several outdoor performance spaces, and a mix of offices, stores and apartments. This prestigious project was fireproofed with Grace's Monokote MK-6/HY fireproofing material. About 30,000 sq. metres of steel surface, which includes the major internal structural steel beams and trusses spanning the entire structure, was spray-applied with MK-6/HY.



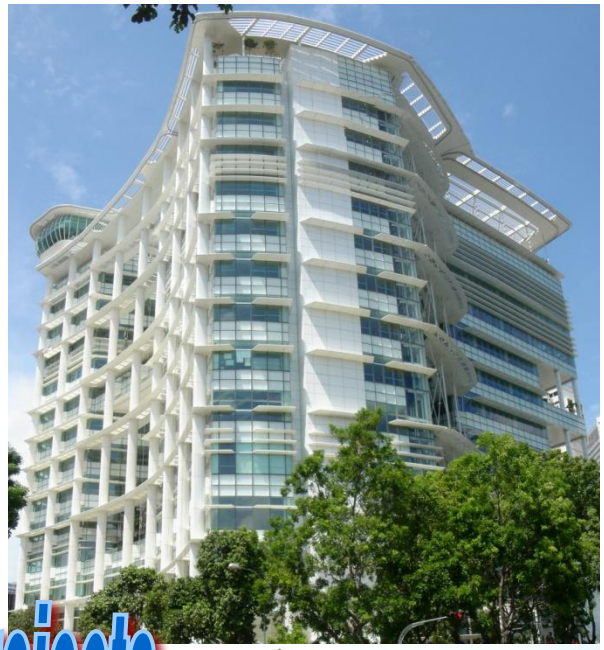
Singapore Post Centre

Project: Singapore Post Centre
Architect: RDC Architects
Consultant: Overrup & Partners
Location: Singapore
Product: Monokote® MK-6/HY Monokote® MK-6/HY and Monokote® Z-146

The Singapore Post Centre is a purpose built complex comprising an office and retail block and a 24-hour mail and parcel processing hub. About 40,000m2 of Monokote® fireproofing was used in all the structural beams and columns of the building.









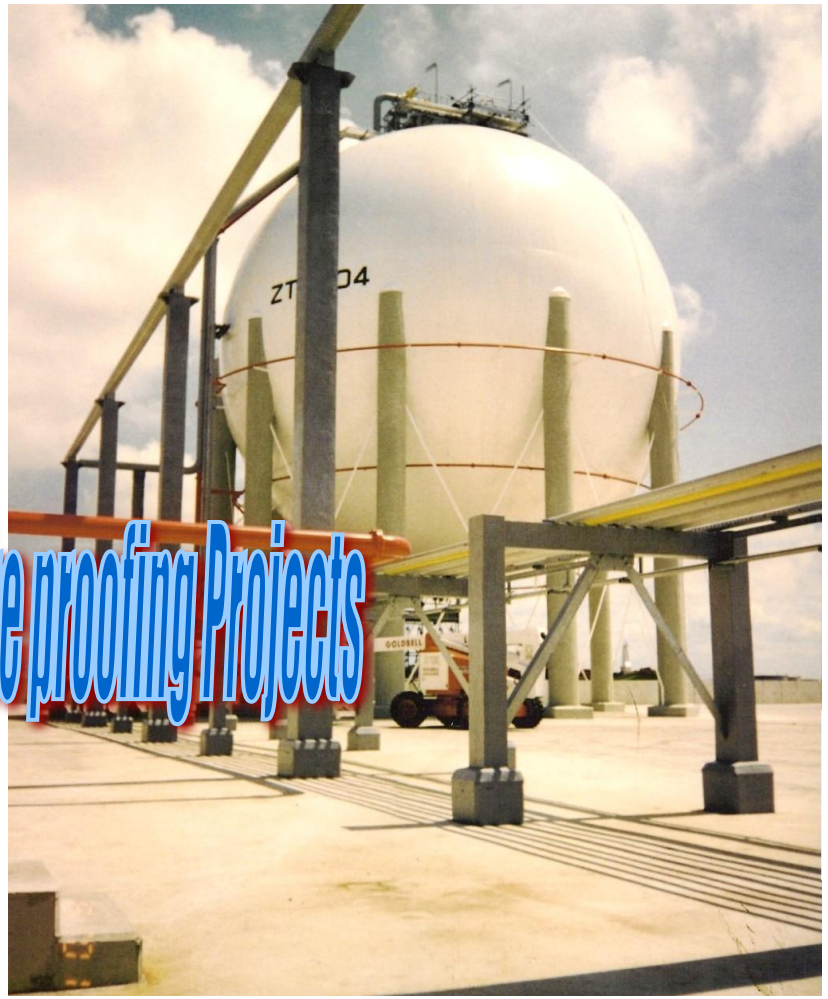
Commercial Fire proofing Projects







Oil & Refinery Industry Fire proofing Projects











Industrial Flooring

Industrial FLOORING

- This aspects of the work is quite varied as we have put up flooring systems on both new and floors to withstand heavy traffic like vehicles and forklifts or floors to resist chemicals spillages as in laboratories, food processing plants and other industrial usage. Floor system may range from simple application of mineral aggregates to hardening the wearing surface of complex epoxy screed capable of withstanding high impact locals and abrasion.
- Our flooring department has experiences in installing floor systems of helicopter hangers, bakeries, multi-storey car parks, warehouses etc. We also pride ourselves in upgrading existing damaged floor which is always an extremely arduous process. As in all other specialise fields our technicians are trained and posses a thorough working knowledge of various flooring products including cementitious compounds, epoxies, urethanes etc.
- Installing specialise flooring system always require the appropriate tools and equipment from the surface preparation to the actual application. On philosophy has always been to use the best available tool to execute the job under the close supervision of trained personnel.
- Notable project completed are the Borneo Motors Toyota Workshops and the Multi storey Carpark at the World Trade Centre Singapore.













Harbour Front World Trade Centre Carpark Flooring System

World Trade Center Singapore went through a total revamp of the property with additions and alterations. The total 8 storey car park floor was re-laid with Mastertop 1220 Epoxy Anti-slip floor from Degussa MBT. The work was carried out while the car park was still in operation. Through proper co-ordination and working 24 hr shifts, BCS-Prokon manage to complete in time with a minimum of interruptions.



Toyota Workshop Epoxy Flooring System

From the first workshop at Champion Motors, BCS-Prokon was call upon to proposed the flooring requirements of the other Borneo Works which were undergoing upgrading. Special corporate colors was made available by Degussa MBT for all the workshops. In some cases BCS-Prokon has to combine other system from other suppliers to give a complete solution to problems that have risen on site.





Mapletree City 35,000 sqm. Carpark Floor System







Concrete Repair & Restoration

CONCRETE REPAIR & RESTORATION

We have a Structural Protection and Concrete Repair & Restoration section experienced in spalling Concrete Repair, Epoxy Grouting Repair, P.U. Injection Repair and Corrosion Inhibitors.

We have IRP trained staffs which in turn conduct in house training for our Supervisors and applicators in repair technology meeting recognized standards. Our trained Supervisors and team of applicators have extensive experience working in Singapore and neighbouring countries. They are Kim Chuan Sewage and CWRP in Singapore, Paiton Power Station in Indonesia, Six form centre in Brunei, to name a few.

We believe that in order to have a good job done, it is essential to have proper tools and equipment with the right materials to be carried out by the right team.



The concrete repair division of BCS -Prokon has undertook many projects.

Types of repair undertaken include :

1) Patch repairs to spalling concrete using polymer mortars.
2) Sewage repairs using epoxy mortars and coatings.
3) Epoxy crack injection using twin-line Injection Pumps..
4) Polyurethane injection for water stopping and leakage repair
5) Hydro Structure Gel Injection with Plural Pump.

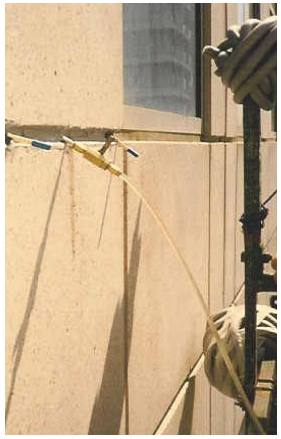


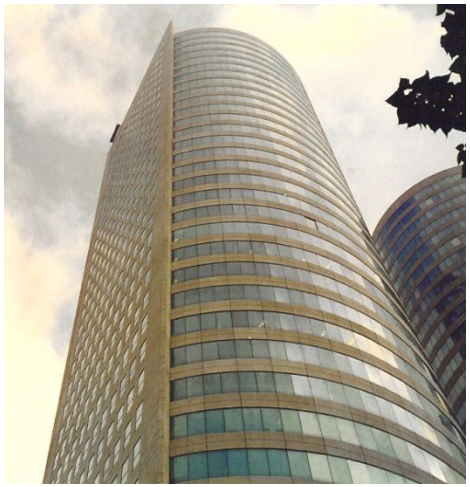
Notable projects completed are the World Trade Centre in Sri Lanka and the channelling of 6,000 segment rings of the first MRT Line in Singapore.













World Trade Centre Sri Lanka Concrete Repair

Project: World Trade Center Sri Lanka
Client: Shing Kwang Realty
Location: Colombo, Sri Lanka
Product: Concresive 1439
LPL Injection Resin

World Trade Center Sri Lanka was bombed after the official opening. BCS-Prokon which completed the Waterproofing contract for the Roof was requested to study the damaged to the system. While assessing the damaged to the waterproofing system we were approach to repair the cracks on the precast panels and also to apply a protective coating after the crack repairs. Approximately 10,000 m-run of cracks were sealed with epoxy resin.



Singapore MRT Segment Joints Maintenance Project

Project: Channeling System To Segment Joints
Application Of Corrosion Inhibitors
Client: Singapore Mass Rapid Transit Authority
Location: North/South-East/West Metro Line
Product: Epoxy Mortar with Glass Beads
MCI Corrosion Inhibitor from Degussa MBT

Supply and Install EPDM gaskets more than 6000 segment ring joints to channel water that has leak through the joints away from the rail tracks. Work was carried out after midnight to 4 a.m. in the morning. BCS-Prokon was able to complete the work on schedule with a 100% safety record.





Nicoll HighWay Collapse

BCS-Prokon Supply Manpower and supervision in helping to filled the massive void cause by the collapse with foam concrete. Together with another specialist contractor and consultant, we work round the clock for 10 days to stabilise the ground.

Training

Bcs-Prokon believes in investing in training the installers and applicators. It conducts its own in house training and also training with manufacturers and suppliers. Our staffs has been training locally and overseas and visited numerous sites to gain experiences that may help in our own projects. We aim to train our installers and applicators to the state that they will be able to be call upon to carried any type of work we are involve in.

We are also commited to invest in machine and tools that will help us to carry out our task as effective and efficient as possible. We are commited to our clients and customers give of our best quality of work.



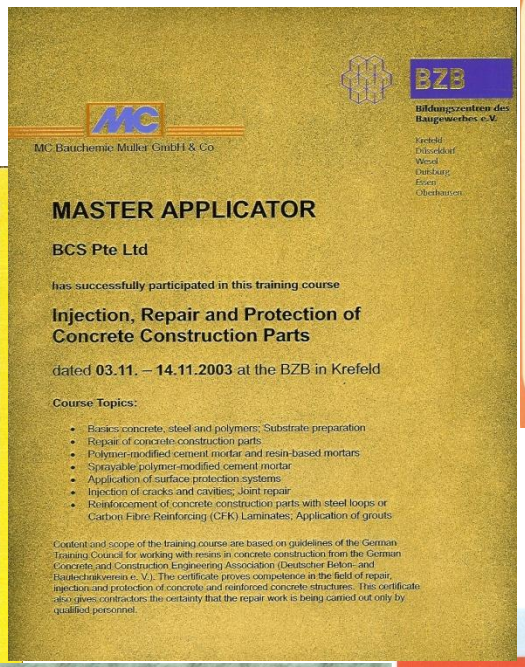






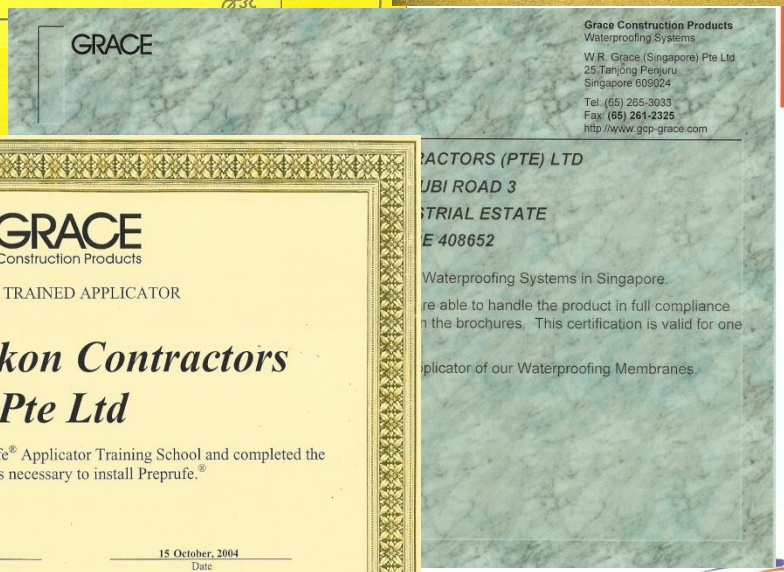



Master Builders Technologies
This is to certify that
BCS - PROKON CONTRACTORS (PTE) LTD
is an approved Grade A applicator for
Waterproofing
MBT (SINGAPORE) PTE LTD


BZB
Bildungszentren des Baugewerbes e.V.
MC Bauchemie Müller GmbH & Co
MASTER APPLICATOR
BCS Pte Ltd
has successfully participated in this training course
Injection, Repair and Protection of Concrete Construction Parts
dated 03.11. – 14.11.2003 at the BZB in Krefeld
Course Topics:
Basics: concrete, steel and polymers; Substrate preparation
Repair of concrete construction parts
Polymer-modified cement mortar and resin-based mortars
Sprayable polymer-modified cement mortar
Application of surface protection systems
Injection of cracks and cavities; Joint repair
Reinforcement of concrete construction parts with steel loops or Carbon Fibre Reinforcing (CFK) Laminates; Application of grouts
Content and scope of the training course are based on guidelines of the German Training Council for working with resins in concrete construction from the German Concrete and Construction Engineering Association (Deutscher Beton- and Bautechnikverein e. V.). The certificate proves competence in the field of repair, injection and protection of concrete and reinforced concrete structures. This certificate also gives contractors the certainty that the repair work is being carried out only by qualified personnel.


WAK Trading Pte Ltd – MC-Bauchemie
This Certificate is Presented to
BCS-PROKON CONTRACTORS (PTE) LTD
For Participating in the
Injection Training of
MC-Inject 2033 & MC-Inject 2300NV
on


CERTIFICATE
Having attended the Lily Corporation Resin Injection and Dispensing Seminar, it is recommended that
BCS-Prokon Contractors Pte Ltd
be considered qualified in the pressure injection and dispensing of resins used in the repair of concrete and other structures.
John F. Trout
President
LILY CORP.

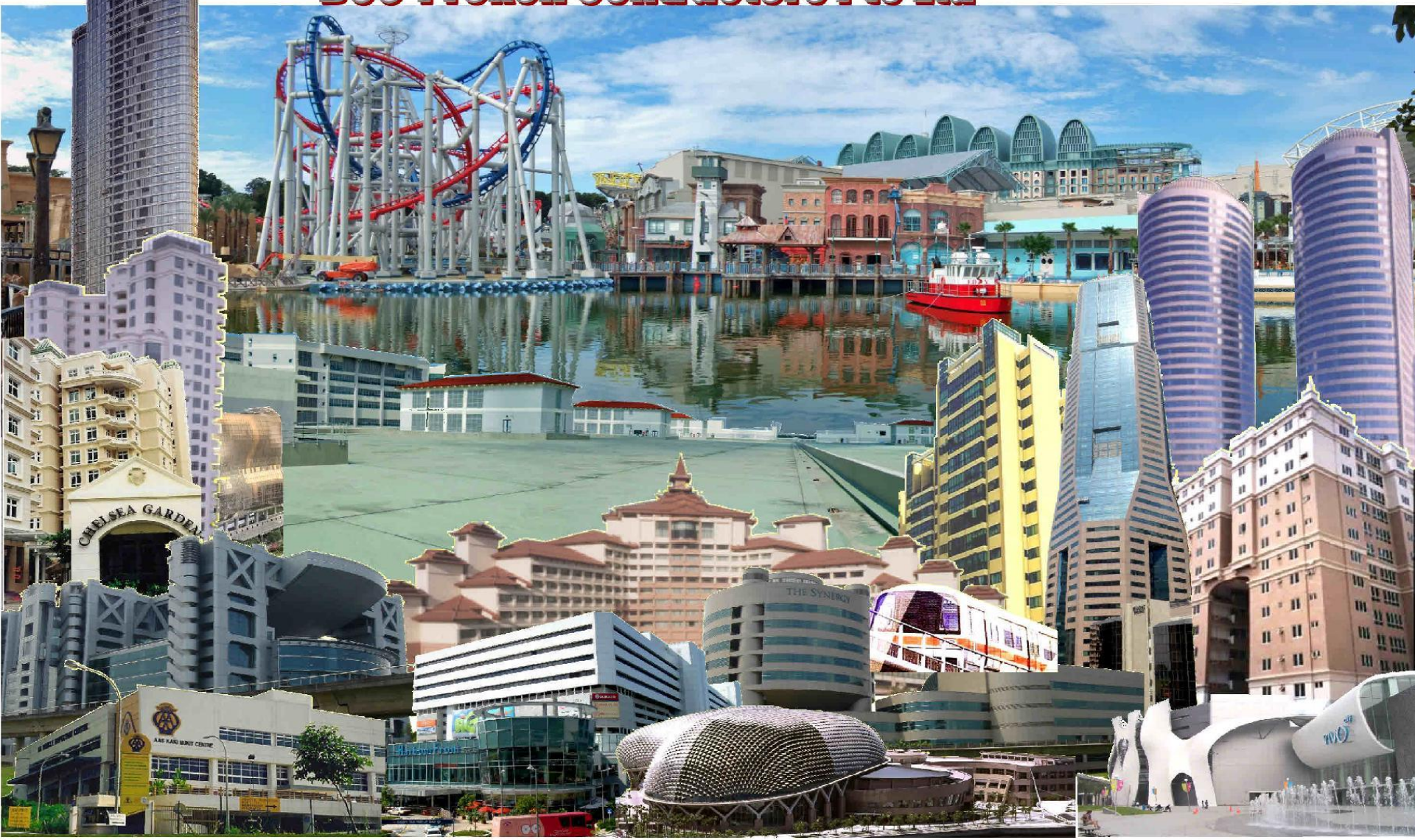

GRACE
Grace Construction Products
Waterproofing Systems
W.R. Grace (Singapore) Pte Ltd
25 Tanjong Penjuru
Singapore 609024
Tel: (65) 265-3033
Fax: (65) 261-2325
http://www.gcp-grace.com
ACTORS (PTE) LTD
UBI ROAD 3
STRIAL ESTATE
E 408652
Waterproofing Systems in Singapore.
re able to handle the product in full compliance
the brochures. This certification is valid for one
plicator of our Waterproofing Membranes.


GRACE
Construction Products
GRACE TRAINED APPLICATOR
BCS Prokon Contractors Pte Ltd
has attended the Grace Preprufe® Applicator Training School and completed the requirements necessary to install Preprufe.®
Paul E. Korenberg
Worldwide Training Manager
W. R. Grace & Co.
15 October, 2004
Date


This Certificate is presented to
BCS-Prokon Contractors (Pte) Ltd
In recognition of your valuable contribution in successfully achieving "Zero Accident" for CPSC Plant-2 Fire Proofing Replacement Project from 1 March 2004 – 31 December 2004
MARGIE I CONWAY
PLANT MANAGER
4 February 2005
Date

Chevron Phillips
Singapore Chemicals (Private) Limited
Chevron Phillips Singapore Chemicals (Private) Limited

BCS-Prokon Contractors Pte Ltd



Thank You