

# Construction Material Alliance Pty Ltd

## Site References



**CMA100 ULTRACLEARSEAL**

**CMA-ADMIX**

# CMA waterproofs the world's most iconic project

## The World, Dubai



### PROJECT DETAILS

<b>COUNTRY</b>	United Arab Emirates
<b>SITE</b>	The World, Dubai
<b>KEY ISSUE</b>	Chloride Diffusion
<b>OTHER ISSUES</b>	Permeability, Eco-friendliness
<b>AREA</b>	Floating Villas & Various
<b>YEAR</b>	2020

**The World, Dubai** is rising majestically, above the shimmering surface of the Arabian Gulf.

**The most iconic project of the 21<sup>st</sup> century so far**, this paradise is just 10 minutes by boat across clear waters from Dubai, all bathed in year-round sunshine, symbolizing high-luxury living.

**CMA Admix** was chosen ahead of several crystalline products, after having been rigorously tested for waterproofing capability and chloride diffusion performance. Included in the area waterproofed by CMA Admix, are the world-unique floating seahorse villas.

Featuring ease of use, astounding performance and intense chlorides diffusion arrest, CMA Admix **does not affect the marine eco-system**, on a project which is very conscious of protecting the environment, in what is possibly the most demanding marine engineering project ever.

Waterproof  Concrete. For life.

# One Tower, Balneário Camboriú Brazil



PROJECT DETAILS	
<b>COUNTRY</b>	Brazil
<b>SITE</b>	One Tower
<b>DEVELOPER</b>	FG Empreendimentos
<b>CONSULTANT</b>	Reical Engenharia
<b>APPLICATOR</b>	Netherland Engenharia
<b>AREA</b>	Rooftops, swimming pools
<b>YEAR</b>	2022

Tower One, the tallest building in Balneário Camboriú and one of the 10 tallest buildings in Brazil, 290 meters high, with 77 floors.

CMA100 was chosen for three reasons.

- Excellent reputation of long-term performance in the country.
- Super-fast application, allowing the project to start earliest operation
- No need for future re-application.

# The Omnia, Bali, Indonesia



SITE DETAILS	
<b>COUNTRY</b>	Indonesia
<b>SITE</b>	The Omnia Bali
<b>CLIENT</b>	Woha Designs Pte Ltd
<b>DEVELOPER</b>	Alila Group
<b>CONTRACTOR</b>	PT Recta Construction
<b>KEY ISSUE</b>	System approach to waterproofing
<b>AREA DONE</b>	Rooftop, podium, swimming pool, and tanks

**COUNTRY** Indonesia

Alila Group, one of the world's most up-market resort operators, has opened their latest luxury project. The Omnia Bali is probably the trendiest resort in Asia and shows how CMA can provide the benefits of a SYSTEM APPROACH to waterproofing. Being a world class luxury resort, the applicator had to look for a product that would guarantee turnkey results.

CMA100 was used above ground on the rooftops, podiums, and swimming pool - protecting concrete from salt spray and consequent chloride ingress. CMA-Admix was used for the groundwater tanks. It is non-toxic thus suitable for the use of potable water.

# South Palms Beach Resort, Panglao, Bohol, Philippines



PROJECT DETAILS	
COUNTRY	Philippines
SITE	Panglao, Bohol, Philippines
CONTRACTOR	Terp Asia Construction Corp.
APPLICATOR	Rimab's Specialty Building Products Inc.
KEY ISSUES	Life-time leak protection in intensely saline beachfront environment.
AREA	Main building, guest wings MEP building, pool villa, watersports ground floor, main restaurant etc. Total 10,182 m <sup>2</sup>
YEAR	2022

The 78 rooms and villas at South Palms Resort Panglao exude tranquility, privacy and modernity. Mixing traditional Filipino design with a modern touch, the beautiful resort in Panglao guarantees authentic relaxation in a tropical paradise.

More than 5,400m<sup>2</sup> of concrete areas treated with CMA100 and more than 4,500m<sup>3</sup> waterproofed with CWS Admix, are protecting the luxurious structure from leak and, corrosion to the steel reinforcement, ensuring uninterrupted operation for the years to come.

# Trees Residences, Quezon City, Philippines



SITE DETAILS	
COUNTRY	Philippines
SITE	Trees Residences
CLIENT	SM Development Corporation
MAIN CONTRACTOR	Paravisible
ARCHITECT	ASYA
KEY ISSUE	Thermal stress
AREA DONE	Roofdeck
SIZE	5200m <sup>2</sup>

Trees Residences offers the indulgence of a hushed, quiet neighbourhood in the heart of Novaliches, Quezon City. Its high-rise condominiums catch sun most of the day. CMA100 was the perfect choice for this project because of its ability to withstand thermal stress.

CMA100 also seals cracks in the concrete up to 2.2mm, it forms a barrier inside the concrete which waterproofs and protects the concrete for the life of the structure.

# Urban Deca Tower3, Cebu Philippines



PROJECT DETAILS	
<b>COUNTRY</b>	Philippines
<b>CLIENT</b>	Urban Deca Homes
<b>SITE</b>	Banilad Cebu City, Philippines
<b>CONTRACTOR</b>	Sherman Construction Consolidated
<b>APPLICATOR</b>	Rimab's Specialty Building Products Inc.
<b>KEY ISSUES</b>	Super-fast application, crack-sealing abilities
<b>AREA</b>	Roofdeck , total area 2,240m <sup>2</sup>
<b>YEAR</b>	2022

Conveniently situated in the Mandaluyong part of Manila, this property puts the urban tenant close to attractions and interesting dining options. This 5-star property is packed with in-house facilities to improve the quality of life.

More important than amenities though, is the quality of construction and the life-long performance of the materials used.

CMA100 was specified for its crack sealing ability, up to 2.2mm and for the super-fast application, that speeds up project completion and delivery to the client

# The Palladium, Ilo Ilo, Philippines



PROJECT DETAILS	
COUNTRY	Philippines
SITE	The Palladium
DEVELOPER	Vision Properties Development Corp
CONSULTANT	Design Alliance – Architecture & Planning
APPLICATOR	Acuatec
AREA	Viewing deck and roof deck, Sky Garden and pocket gardens in 5 floors, amenity and machine room decks, trench drain, outdoor fitness areas and open lawn

Without a doubt, The Palladium, part of the wonderful Iloilo Business Park, is the very visual definition of success and prosperity, the perfect way for a man to enjoy what he has come to expect when you has finally reached a point of major success.

CMA100 was chosen for three reasons.

- Super-fast application
- No need for future re-application
- Anti-root penetration on planter boxes



# Unilab Williams Centre, Mandaluyong, Philippines



SITE DETAILS	
<b>COUNTRY</b>	Philippines
<b>SITE</b>	Unilab Williams Centre
<b>CLIENT</b>	United Laboratories Inc.
<b>GENERAL CONTRACTOR</b>	Will Decena & Associates Inc.
<b>DEVELOPER</b>	Greenfield Development Corp
<b>CONSULTANT</b>	W.V. Coscouella & Associates
<b>KEY ISSUE</b>	Waterproofing concrete for life.
<b>AREA DONE</b>	Carpark
<b>SIZE</b>	3200m <sup>2</sup>

Ease and speed of application are just some of the benefits that CMA100 can offer. Benefits that became the deciding factor for both the owner and the contractor when CMA100™ was chosen for this carpark.

The client had to be certain that there was no leakage of water into the carpark. As CMA100 seals cracks in the concrete up to 2.2mm, it forms a barrier inside the concrete which waterproofs and protects the concrete for the life of the structure.

# Eton Centris Cyberpod, Quezon City, Philippines



## SITE DETAILS

<b>COUNTRY</b>	Philippines
<b>SITE</b>	Eton Centris Cyberpod 5
<b>CLIENT</b>	Eton Properties
<b>MAIN CONTRACTOR</b>	Datem
<b>APPLICATOR</b>	MB Technosolutions
<b>KEY ISSUE</b>	Slip resistant waterproofing
<b>AREA DONE</b>	Parking deck
<b>SIZE</b>	2800m <sup>2</sup>

Eton Properties is an empowered organization with a culture anchored on integrity and characterized by passion for excellence – a perfect reason they have chosen CMA; to safeguard their integrity and passion for excellence.

CMA100 is highly recommended for carparks as it not only waterproofs but has no loss of slip resistance.

Showcasing our commitment to excellence, one of the many commendable benefits of CMA100 is that it prevents oil from penetrating into the concrete, making upkeep simpler.

# Zitan Tower, Mandaluyong City, Philippines



SITE DETAILS	
COUNTRY	Philippines
SITE	Zitan Tower
CLIENT	Greenfields Corp.
CONTRACTOR	Moondragon
PROJECT	Roofdeck
AREAS APPLIED	Roof deck, Balconies, Ledges and Concrete Drains <b>4.600m<sup>2</sup> total</b>
APPLICATOR	MB Technoslutions

As the flagship residential vertical development of Equus Property Venture, Inc., Zitan Tower offers its future residents an unparalleled opportunity of being part of the Greenfield District community.

Located at the gateway of the Greenfield District,, Zitan Tower links residents to nearby lifestyle centers, green open spaces and to the metropolis.

4600m<sup>2</sup> of roofdeck, balconies and other areas were treated with CMA100, enjoying problem-free waterproofing for the years to come.

The *super-fast* application allowed the project to move fast and within deadlines with no delays.

# Lucio Tan Residences Helipads, Philippines



PROJECT DETAILS	
COUNTRY	Philippines
SITE	Lucio Tan Helipads
APPLICATOR	MB Tech
CONSULTANT	Arch. Chua
KEY ISSUES	Top quality long-term waterproofing, concrete protection
AREA	Helipads
YEAR	2022

Lucio Tan is one of the richest people in the Philippines and a recognized business magnate. The owner of Philippine Airlines, Asia Brewery & Fortune Tobacco Corp. built two helipads at his residences, since mobility is important for monitoring his multiple companies.

CMA100 was chosen for three reasons.

- Top quality features
- Long-term waterproofing
- Concrete protection, as it hardens the concrete

harder than granite, protecting it from mechanical abrasion and wear.

# Mactan Promenade, Cebu, Philippines



The Promenade Mactan is an indulging newest destination to dine, chill and relax with friends and family, in Lapu-Lapu City, Cebu.

About 1.000sq.m. of walking area were protected and waterproofed for life, using

CMA100, which was chosen for its lifetime waterproofing, super-fast application and, mostly, for its ability to increase concrete hardness beyond granite hardness, which means the concrete is protected against abrasion for the years to come.

## SITE DETAILS

<b>COUNTRY</b>	Philippines
<b>SITE</b>	Promenade Mactan
<b>DEVELOPER</b>	South Coast Realty
<b>CONTRACTOR</b>	C.M. Condor
	Building Products
<b>APPLICATOR</b>	Promenade decks and fountain
<b>YEAR</b>	2022

# AMP Building, Cebu Philippines



	SITE	DETAILS
<b>COUNTRY</b>	Philippines	
<b>SITE</b>	Nivel Hills, Cebu	
<b>CONSULTANT</b>	Pont Architectural &	
	Design Studio	
<b>PROJECT</b>	Roofdeck	
<b>KEY ISSUE</b>	waterproofing Failure of the roof	
<b>APPLICATOR</b>	Rimab's Specialty Building Products Inc	
<b>YEAR</b>	2021	

AMP Building, is an elegant 3-storey commercial development in Cebu, Philippines. Office spaces, a radio station and restaurant operate in the premises. 15 years after completion the roofdeck waterproofing failed. CMA100 was chosen to satisfy the requirement for lifetime waterproofing protection of the construction. CMA100 will seal current static cracks up to 2.2mm and waterproofs the concrete for the full service life of the construction.

# Borromeo Arcade, Cebu Philippines



PROJECT DETAILS	
COUNTRY	Philippines
SITE	Pinamungajan Cebu City, Philippines
GENCON	Hammasia Global Builders
APPLICATOR	Rimab's Specialty Building Products Inc.
KEY ISSUES	Lifetime protection against re-application and activity suspension for repairs
AREA	Roofdeck Area
YEAR	2021

Commercial projects, such as the Borromeo Arcade services center, cannot afford to suspend their activity, in order to perform large scale repairs, such as re-installation of waterproofing. CMA waterproofing technology ensures lifetime protection against leaks and moisture ingress, without the need of re-application or maintenance of the waterproofing solution. CMA100 provides lifetime waterproofing protection on concrete roof decks and areas of concrete that are exposed to thermal stress

# La Rossa Sampaguita, Manila, Philippines



SITE DETAILS	
<b>COUNTRY</b>	Philippines
<b>SITE</b>	La Rossa Sampaguita
<b>MAIN CONTRACTOR</b>	MetroStonrich
<b>DEVELOPER</b>	Primehomes
<b>KEY ISSUE</b>	Leak free waterproofing
<b>AREA DONE</b>	Balconies and Rooftops
<b>SIZE</b>	2150m <sup>2</sup>

This client had to be certain that there was no leakage of water from the rooftop or balconies. As CMA100 seals cracks in the concrete up to 2.2mm, it forms a barrier inside the concrete which waterproofs and protects the concrete for the life of the structure.

CMA100 was chosen for this project as it lasts a lifetime and never needs expensive maintenance or continuous replacement.



# Warehouse Rooftop, Tacloban Philippines



SITE DETAILS	
<b>COUNTRY</b>	Philippines
<b>SITE</b>	Warehouse & Showroom
<b>DESIGN/ BUILD CLIENT</b>	Solid Constructions Inc. Uratex Showrooms Inc.
<b>APPLICATOR</b>	Rimab's Specialty Building Products Inc
<b>KEY ISSUE</b>	Lifetime Waterproofing & Crack Sealing
<b>AREA</b>	Roof Deck
<b>YEAR</b>	2021

Uratex was founded by Robert G. Cheng and his wife Natividad in 1968.

53 years and 23 production plants later, the company is still true to Robert's vision that *"We will not stop until we give every Filipino a comfortable and affordable mattress to lie on."*

CMA100 was chosen by Solid Constructions Inc. for its super-fast application, enabling the premises to start their income-generating operation the soonest possible, but mainly because of its famous lifetime waterproofing performance, coupled with its unparalleled crack sealing ability.

The applicator's comment on the CMA100 performance is mentionable

*"CMA100 is a good product. It really seals cracks as what we have observed in our projects."*

# IEEI Mitsubishi, Muntinlupa, Philippines



SITE DETAILS	
<b>COUNTRY</b>	Philippines
<b>SITE</b>	IEEI Mitsubishis Office
<b>CLIENT</b>	IEEI Mitsubishi
<b>ARCHITECT</b>	IC Architecture
<b>KEY ISSUE</b>	Once Only Waterproofing
<b>AREA DONE</b>	Roofdeck of Office Tower
<b>SIZE</b>	2300m <sup>2</sup>

IEEI is a recognized leader in design and sales of elevators and escalators in the Philippines.

CMA100™ were chosen for this project to address the issue of future challenges like thermal stress, ultra-violet and dampness of the concrete.

CMA products provide solutions designed to overcome these hurdles and produce a leak-free result for life.

CMA100 was applied to the Roofdeck.

# COCO Palm Resort, Cebu Philippines



PROJECT DETAILS	
<b>COUNTRY</b>	Philippines
<b>SITE</b>	Danao Cebu City, Philippines
<b>CLIENT</b>	Ar. Paulo Roberto
<b>GEN CON</b>	Alberto Architectural Services D&B
<b>APPLICATOR</b>	Rimab's Specialty Building Products Inc.
<b>KEY ISSUES</b>	Life-time waterproofing, with no need for re-application in future
<b>AREA</b>	Roofdeck
<b>YEAR</b>	2022

Danao Coco Palms Resort is a great resort offering exceptional services and views of the sea, located by the seaside of Danao and about 28 kilometers from Cebu City.

CMA100 was chosen for waterproofing of roofdeck areas, after traditional means failed again.

Super-fast application was also a decision factor, as it shortens project time dramatically, without impacting the operation of business for long repairs.

# NCC Residential Building, Barangay Philippines



PROJECT DETAILS	
<b>COUNTRY</b>	Philippines
<b>SITE</b>	NCC Building
<b>CLIENT</b>	Techmaster Builders
<b>CONSULTANT</b>	Arch. Zach Elisha Go
<b>GENCON</b>	Techmaster Builders (Design & Build)
<b>APPLICATOR</b>	Rimab's Specialty Building Products Inc.
<b>KEY ISSUES</b>	Short deadlines – fast application
<b>YEAR</b>	2022

**A mountain resort home in the heart of the city.** This beautiful project located in Monterazzas Subdivision Barangay Guadalupe, is surrounded by sea and sky, in a lush green grove.

CMA100 was chosen, because it was the only material that could safely waterproof the project, within the very strict time limits and deadlines.

Without sacrificing its top crack sealing ability and problem-free performance, CMA100 is the fastest waterproofing in the world market today.

# Residential Building, Cebu Philippines



PROJECT DETAILS	
<b>COUNTRY</b>	Philippines
<b>SITE</b>	Guadalupe Cebu City, Philippines
<b>CLIENT</b>	Pont Studio
<b>GENCON</b>	Ferrowelds Construction
<b>APPLICATOR</b>	Rimab's Specialty Building Products Inc.
<b>KEY ISSUES</b>	Repair, re-waterproofing, after failure of traditional materials
<b>AREA</b>	Stairs, Open Terrace and Canopies
<b>YEAR</b>	2021

The inevitable failure of traditional waterproofing membranes, is a source of severe aggravation for house owners, beyond the undesirable – and recurring – expenditure for re-application of waterproofing every so often.

This modern residence received life-time waterproofing by CMA100, on most of its exposed areas.

Not only is the application of CMA100 super-fast, with minimum disturbance of the household residences, but ensure decades of water tightness, as well as 100% problem-free waterproofing performance.

# Union Church, Manila



SITE DETAILS	
<b>COUNTRY</b>	Philippines
<b>SITE</b>	Union Church Manila
<b>APPLICATOR CONSULTANT</b>	MB Technosolutions Corp Arch. Reul Aboy
<b>KEY ISSUES</b>	Repetitive failure of membrane waterproofing.
<b>AREA DONE</b>	Rooftop

Established in October 11, 1914 in Malate, the Union Church of Manila was created to address the spiritual needs of the American population in the country, at the time.

After a series of establishments, the Union Church has found its final settlement in Makati, Manila. The rooftop of the church was consistently leaking, even after repetitive repairs.

CMA100 was chosen by the architect, in order to ensure that waterproofing re-application would never need to be repeated again, as it ensures single-coat, lifetime waterproofing, with no need for future maintenance.

# Logan Heritage Building, Penang, Malaysia



SITE DETAILS	
COUNTRY	Malaysia
SITE	Logan Heritage Building
CLIENT	Oversea Chinese Banking Corp.
CONTRACTOR	Solutions Sdn Bhd
PROJECT	Celestial Building
PROBLEM	Roofdeck waterproofing
SOLVED	Repeated failure of
YEAR	traditional waterproofing
	2022

139 years since its completion in 1883, the Logan Heritage Building within George Town's UNESCO World Heritage Site, was recently restored to its original glory. Owned by Singaporean OCBC Corp., the beautiful Victorian-style complex, serves today as a retail arcade, with several retail outlets, restaurants, and leisure-time amenities.

After the completion of refurbishment operations, leaking was discovered in several areas. The client tried several methods, including polyurethane and cementitious interventions, which failed to solve CMA100 was applied, effectively sealing all leaks and cracks on the surface, without the need for a protective screed

# Weissen Factory, Rawang, Selangor, Malaysia



SITE DETAILS	
COUNTRY	Malaysia
SITE	Pet food production plant
OWNER	Weissen
KEY ISSUE	Replace failing membrane and achieve permanent waterproofing
AREA	Rooftop
YEAR	2021

This pet food production plant in Malaysia, consists of a three - storey office & showroom building, as well as a nine - storey facility, for production and packing, which is attached to a covered warehouse at the side.

The project was already delayed by several months, so speed of application was critical to the factory. Also, the fact that **CMA100 does not need a screed** for protection, was important to the client and, finally, the impact to the site was minimal, as the lifting of the usual materials at the 9<sup>th</sup> floor, would require significant overhead costs, needing cranes and pumps to be set up.

CMA100 was chosen because it is easier to apply and cheaper to complete the project in time, as it does not need a protective screed, has super-fast application and offers a significantly lower total cost of installation.



# Waste water treatment plant, Puncak Alam, Malaysia



PROJECT DETAILS	
<b>COUNTRY</b>	Malaysia
<b>SITE</b>	Water treatment plant of frozen food factory
<b>CONSULTANT</b>	CH NG Architect
<b>MAINCON</b>	Kayaal Holding Sdn Bhd
<b>AREA</b>	Foundation slab
<b>YEAR</b>	2023

The waste water treatment plant of this new frozen food factory, needed to be permanently waterproofed and protected. CMA Admix was chosen to protect the foundation slab, because of its lifetime waterproofing performance, protection of steel reinforcement against chlorides and corrosion, and its easy application.

# VW Warehouse, Johore Bahru, Malaysia



## SITE DETAILS

<b>COUNTRY</b>	Malaysia
<b>SITE</b>	VW Warehouse
<b>KEY ISSUE</b>	Speed of application
<b>AREA DONE</b>	Rooftop
<b>SIZE</b>	7000m <sup>2</sup>
<b>YEAR</b>	2019

The Volkswagen Group announced that it was moving its Asia-Pacific regional aftersales centre from Singapore to Malaysia. The new hub in Johor Bahru opened its doors in 2018. They needed a product which could keep up with the strenuous time schedule before they opened their doors.

Application of CMA100 is extremely fast. One person can apply about 6000m<sup>2</sup> per day compared to under 100m<sup>2</sup> for membranes.

CMA100 also has no loss of slip resistance so it is perfect for driving vehicles on.

# Car Park over TNB power room, Malaysia



PROJECT DETAILS	
COUNTRY	Malaysia
SITE	Condominium in Johor Bahru
APPLICATOR	DSE Engineering
KEY ISSUES	Crack treatment, lifetime waterproofing, protection against abrasion
AREA	Car park, total area 400m <sup>2</sup>
YEAR	2022

This condominium, houses a TNB electric power room at the ground floor and a car park on the 1<sup>st</sup> floor. Several cracks had appeared on the new construction and the owner was worried for watertightness and also protection of the concrete against wear from vehicles moving and swerving

CMA100 was chosen for three reasons.

- 2.2mm crack sealing ability
- Long-term waterproofing
- Concrete protection, as it hardens the concrete harder than granite, protecting it from mechanical abrasion and wear.

# Bungalow, Penang Malaysia

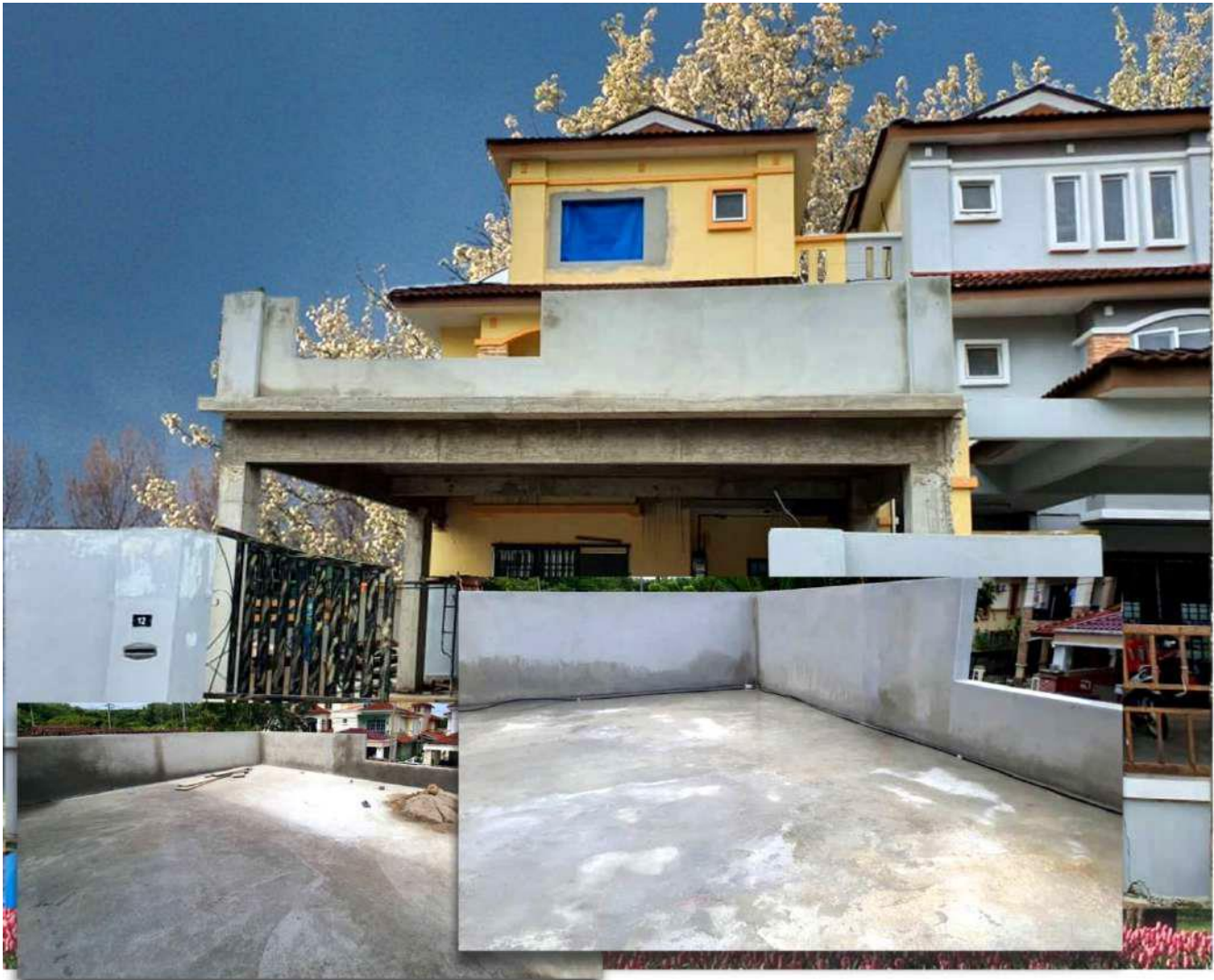


PROJECT DETAILS	
<b>COUNTRY</b>	Malaysia
<b>SITE</b>	Bungalow full overhaul
<b>APPLICATOR</b>	Celestial Building Solutions
<b>CITY</b>	Penang
<b>AREA TREATED</b>	New concrete flat rooftop, carpark roofdeck, toilets

This traditional Malaysia bungalow was fully renovated and overhauled into a modern residence.

The owners were looking for a waterproofing solution that would last for much longer than traditional waterproofing methods, who eventually fail and disrupt the life of the family, with repeated need for repairs over the rooftop. CMA100 was chosen to protect house areas, such as the new concrete flat roof, the car park roof deck and wet areas

# Rooftop Extension, Malaysia



SITE DETAILS	
COUNTRY	Malaysia
SITE	Seberang Jaya Tun Hussien Onn
PROJECT	Double Storey Terrace House Side Extension
CONTRACTOR	Bhd Concrete Builder Sdn
YEAR	2021

The project was about the side-extension of a double storey terrace house.

The contractor chose CMA100 as the application is super fast and very little labour is needed, especially during our Covid Lockdown where worker permits were hard to obtain.

CMA100 was the final choice as it only requires one "coating", for lifetime waterproofing. It also required no screed for protection and – most importantly – sealed off the surface cracks on the older part of the roof.

**Total project time was less than 2 hours.**

# Gold Coast Apartments, Jakarta Indonesia



SITE DETAILS	
<b>COUNTRY</b>	Indonesia
<b>SITE</b>	Gold Coast Apartments
<b>DEVELOPER</b>	Agung Sedayu
<b>CONSULTANT</b>	
<b>MAIN CONTRACTOR</b>	Pulau Intan
<b>KEY ISSUE</b>	Leak free and ONCE ONLY WATERPROOFING
<b>AREA</b>	Rooftops and Podium

Located in Pantai Indah Kapuk, an area full of commercial establishments, Gold Coast Apartments is soon to provide harmonious and liveliness of modern architecture merging with the green spacious landscape to its future homeowners.

CSI had to make sure that there was no leakage of water into the residential complex. As CMA100 seals cracks in the concrete up to 2.2mm, it forms a barrier inside the concrete which waterproofs and protects the concrete for the life of the structure.

CMA100 was applied to the Rooftops and Podiums.

# Mahogany Apartments, Jakarta Indonesia



SITE DETAILS	
<b>COUNTRY</b>	Indonesia
<b>SITE</b>	Mahogany Apartments
<b>CLIENT</b>	PT Wijaya Karya Bangunan Gedung
<b>APPLICATOR</b>	PT Cipta Solusitama Internasional
<b>KEY ISSUE</b>	Eco friendly waterproofing
<b>AREA</b>	Rooftops and Podium

Carrying out the “Placing you between work and living” concept, Mahogany Apartments aimed to accommodate and facilitate the activities of workforces in Karawang.

As the project prioritizes not just quality and safety, in creating space for better human’s life, it values the importance of using eco-friendly materials that’s why CWS products were primarily chosen for waterproofing Mahogany Apartments.

CMA products do not contain significant ecological or health damaging content, no VOCs which makes it an environment friendly product.

# Green Sedayu, Indonesia



PROJECT DETAILS	
<b>COUNTRY</b>	Indonesia
<b>SITE</b>	Green Sedayu Apartment
<b>DEVELOPER</b>	Agung Sedayu Group
<b>APPLICATOR</b>	PT. Cipta Solusitama
<b>CITY</b>	Jakarta
<b>AREAS TREATED</b>	Rooftop, balconies, podium

Agung Sedayu Group's latest masterpiece, Green Sedayu Apartement, located on the Outer Ring Road of West Jakarta, placed in front of Taman Palem Lestari main gate which is the main access to all Citra Garden, Taman Surya housing estates as well as several other housing and apartments.

The undisputed performance and renowned speed of application of CWS100 were core decision criteria for its adoption in this prestigious project.

Lifetime waterproofing is an important factor of lowering future cost of use for top-tier developers. CWS100 does not need re-application in future and requires no preemptive maintenance in the years to come.

Problem-free waterproofing at its very best!



# Ciputra International, Indonesia



PROJECT DETAILS	
<b>COUNTRY</b>	Indonesia
<b>SITE</b>	Ciputra International
<b>DEVELOPER</b>	PT. Ciputra Development
<b>CONTRACTOR</b>	Pt. Multibangun Adhitama Konstruksi / PT. Nusa Konstruksi Engineering
<b>APPLICATOR</b>	PT. Cipta Solutitama
<b>CITY</b>	Jakarta
<b>AREAS TREATED</b>	Rooftop, balconies, swimming pools, carparks, basements etc

Ciputra International is an incredible mixed-use mega-development by PT Ciputra Property (subsidiary), located at a strategic location in West Jakarta and easily accessible from Soekarno-Hatta International Airport.

The project has a total area of 7.5 hectares. Ciputra International developed a total of 10 towers consisting of 6 office towers, 3 high-rise residential building and 1 hotel, renovated and overhauled into a modern residence.

CMA100 and CWS Admix were adopted as a complete waterproofing system, for the protection of this incredible property development.

More than 6000m<sup>3</sup> of concrete and 8000m<sup>2</sup> of total surface were treated with CMA concrete waterproofing and protection technology.

# Grand Batam Mall, Batam, Indonesia



SITE DETAILS	
<b>COUNTRY</b>	Indonesia
<b>SITE</b>	Grand Batam Mall
<b>CONSULTANT</b>	PT. Air Mas Asri
<b>CLIENT</b>	Tunas Group
<b>DEVELOPER</b>	PT. Tritunas Bangun Perkasa
<b>KEY ISSUE</b>	System approach to waterproofing
<b>AREA DONE</b>	Rooftops, podiums and basement

Grand Batam Mall consists of a 3-story mall, 23-story office tower, 6-story hotel and 30-story apartment tower. With a gross floor area of 273 402m<sup>2</sup>, this enormous project demonstrates the proficiency of our products.

CMA100 and CMA-Admix™ were chosen for this project to address the issue of future challenges like thermal stress, ultra-violet concerns and dampness of concrete. CMA products provide solutions designed to overcome these hurdles and produce a lifelong leak-free result.

# CBD Wiyung, Surabaya, Indonesia



**Ease and speed of application** are just few of the benefits that CMA100® can offer. Benefits that became the deciding factor, for both the owner and the contractor, to use CMA100® for this project.

The *super-fast* application of CMA100® enables one single applicator to easily cover 6,000m<sup>2</sup> in a day, compared to not more than 100 m<sup>2</sup> for membranes. On top of it, the ease of use leaves virtually no room for misapplication, while project deadlines are fully protected.

As a result, the project owner enjoys a project finished earlier and waterproofing that lasts for the full service life of the construction, while the contractor terminates the project well before the deadline and is safe of liquidated damage claims. A win-win situation for all key stakeholders in the project.

PROJECT DETAILS	
COUNTRY	Indonesia
SITE	Puncak CBD Wiyung
APPLICATOR	CSI
CONTRACTOR	Pt. Wika Gedung
KEY ISSUES	Ease and speed of application
AREA	Rooftops
SIZE	11,844 m <sup>2</sup>
YEAR	2018

# Somerset Apartments, Jakarta, Indonesia



SITE DETAILS	
<b>COUNTRY</b>	Indonesia
<b>SITE</b>	Somerset Apartments
<b>MAIN CONTRACTOR</b>	PT Ascott
<b>APPLICATOR</b>	PT Cipta Solusitama Int
<b>KEY ISSUE</b>	Thermal stress
<b>AREA DONE</b>	Rooftops
<b>SIZE</b>	1850m <sup>2</sup>

Our client's main concern, with this project, was the deterioration of concrete caused by thermal stress as each apartment building extends more than 20 stories tall.

Because of its ability to withstand thermal stress, CMA100 is particularly suitable for exposed concrete. Not only does it waterproof for life, it needs no expensive replacements as is the case with membrane applications.

# BNW Inn, Belitung, Indonesia



## SITE DETAILS

<b>COUNTRY</b>	Indonesia
<b>SITE</b>	BNW Inn
<b>MAIN CONTRACTOR</b>	PT. Estetika Griya Sarana
<b>APPLICATOR</b>	PT. Cipta Solusitama Int
<b>KEY ISSUE</b>	Cost effective waterproofing
<b>AREA DONE</b>	Rooftop and balconies
<b>SIZE</b>	1800m <sup>2</sup>

This economical project needed a product that could fit the budget and save time on construction.

CMA100™ needs no expensive re-application for years to come. It's a straightforward one coat application. No bonding issues as occurs with many membranes.

Super-fast application ensures faster project completion and ultimately saves money, making CMA100™ the perfect product to fit any budget.

# Eastin Ashta Resort, Canggu Bali Indonesia



SITE DETAILS	
<b>COUNTRY</b>	Indonesia
<b>SITE</b>	Eastin Ashta Resort
<b>APPLICATOR</b>	CSI
<b>CONTRACTOR</b>	Pt. Recta Construction
<b>KEY ISSUES</b>	Chloride protection from a very corrosive environment. System Approach
<b>AREA</b>	WS Admix: Ground water tanks CMA100: Rooftop, Swimming pools
<b>SIZE</b>	1,436 m2

Eastin Ashta Resort Canggu is located 200 meters away from the famous Surfer's Beach in Canggu, Bali.

Because of its proximity to the beach, the client needed to make sure that the structure was properly protected against the corrosive environment. CMA products were chosen because they would not only waterproof the building but **protect the concrete for the life of the structure**. This site is also a great example of a **System Approach** offered by CMA: CMA100 was used on the rooftops and swimming pool areas whilst CMA-Admix Slurry was used to protect the ground water tanks.

# Dialog Hotel, Bali, Indonesia



SITE DETAILS	
<b>COUNTRY</b>	Indonesia
<b>SITE</b>	Dialog Hotel
<b>CLIENT</b>	Pt. Ideabali Mandiri
<b>APPLICATOR</b>	PT Cipta Solusitama Internasional
<b>KEY ISSUE</b>	Lifetime waterproofing
<b>AREA</b>	Rooftops and swimming pools

Located near Seminyak Beach in Bali, this Dialog Hotel development is an addition to the newest upmarket area of Bali hotels.

CSI used CMA100 waterproofing which is a complex blend of modified silicates and reactive ingredients which is sprayed onto cured concrete.

CMA100 was chosen for this project as it lasts for a lifetime and never needs maintenance or replacement.

# Podomoro Golf View, Bogor, Indonesia



## SITE DETAILS

<b>COUNTRY</b>	Indonesia
<b>SITE</b>	Podomoro Golf View
<b>MAIN CONTRACTOR</b>	PT. Wika Gedung
<b>DEVELOPER</b>	Agung Podomoro
<b>KEY ISSUE</b>	Lifelong waterproofing
<b>SIZE</b>	17 000m <sup>2</sup>

Agung Podomoro, one of the largest leading developers in Indonesia, is completing an exclusive residence in Depok and Bogor, Indonesia. Aiming for affordable but classy residential living, this project needed a cost-effective solution.

PT. Wika Gedung chose CMA100 because of straightforward one coat application. No bonding issues as occurs with many membrane applications. It's cost effective; super-fast application ensures faster project completion and ultimately saves money.



# POP! Hotel, Pasar Baru, Indonesia



*"For the smart & eco-friendly travelers."* The very first logo you see when you visit their website.

CMA100 is non-toxic, bio-degradable and uses no energy when applied. It does not even need to be recycled because it forms part of the concrete for life, whereas membranes only last 5-10 years.

When used on appropriate buildings, it would be expected to earn credits toward certification such as LEED, BCA and GBI.

SITE DETAILS	
COUNTRY	Indonesia
SITE	POP! Hotel
MAIN CONTRACTOR	PT. Abdael Prima
KEY ISSUE	Environmentally friendly
AREA DONE	waterproofing Roof top

# The BnB, Cikarang, Indonesia



<b>COUNTRY</b>	Indonesia
<b>SITE</b>	PT. Bintang Sewu Hotel BnB
<b>MAIN CONTRACTOR</b>	Leak free waterproofing
<b>AREA DONE</b>	Basement
<b>SIZE</b>	1000m <sup>2</sup>

The contractor of luxurious BnB Hotel, needed to ensure that there would be no leakage of water into the basement, because of elevated water horizon.

In addition to waterproofing, CMA-Admix™ reduces the permeability of concrete, as well as shrinkage cracking. It saves enormous amounts of time and labor, regarding waterproofing demanding projects, because it is simply added to the concrete during the pour.

Life time waterproofing, means that the project owner does not have to worry about future maintenance costs, as in the case with all traditional waterproofing methods.

# Technomart, Karawang, Indonesia



SITE DETAILS	
COUNTRY	Indonesia
SITE	Technomart Karawang
APPLICATOR	CSI
CONTRACTOR	
	1,598 m2

The owners of this project were concerned that if they used a traditional membrane on the rooftop, once it began to deteriorate – as it ultimately will – there would be leakage into the building resulting in unhappy tenants and disruption to trading. So they chose CMA100 because **it guarantees waterproofing for the life of the structure.** Thus there will be no costly repairs and the building will be waterproof for life.

# Mall 23 Paskal, Bandung, Indonesia



SITE DETAILS	
<b>COUNTRY</b>	Indonesia
<b>SITE</b>	Mall 23 @ Paskal
<b>MAIN CONTRACTOR</b>	RECTA Construction
<b>DEVELOPER</b>	Indonesian Paradise Property
<b>CLIENT</b>	PT. Mitra Perdana Nuansa
<b>CONSULTANT</b>	PT. Duta Cermat Mandiri
<b>KEY ISSUE</b>	Lifelong waterproofing
<b>AREA DONE</b>	Rooftops, podiums, basement
<b>SIZE</b>	12 368m <sup>2</sup>

Located in the heart of the city, this iconic landmark feature 40 000m<sup>2</sup> of gorgeously designed modern retail space.

Apart from lifelong waterproofing, CMA100 holds benefits for contractor and consultant alike.

Contractor – does not require a screed, cannot be damaged by other trades on site and is trafficable six hours after application, speeding project times.

Consultant – proven technology with design flexibility, making the project very economical.

# Festive Walk, Karawang, Indonesia



SITE DETAILS	
COUNTRY	Indonesia
SITE	Festive Walk
MAIN CONTRACTOR	PT. Pracetak
APPLICATOR	PT. Cipta Solusitama Int
KEY ISSUE	Slip resistant waterproofing
AREA DONE	Rooftop parking area
SIZE	5000m <sup>2</sup>

Festive Walk wanted to waterproof their rooftop parking area but were concerned about slip resistance. The contractor had to find an innovative product which could meet the stringent criteria.

CMA products provide solutions designed to overcome all kinds of hurdles and produce a leak-free result for life. CMA100™ has no loss of slip resistance so it is perfect for driving vehicles on.

# Marvell City, Surabaya, Indonesia

Slashing waterproofing Maintenance costs, for the project owner!



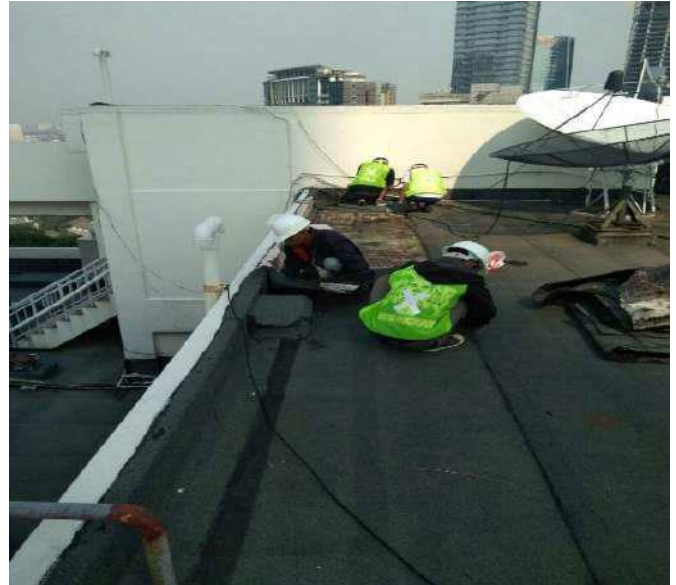
SITE DETAILS	
COUNTRY	Indonesia
SITE	Marvell City Hotel
MAIN CONTRACTOR	PT. Assa Land
APPLICATOR	PT. Cipta Solusitama Int
KEY ISSUE	Lifelong Maintenance free waterproofing
AREA DONE	Rooftop and podiums
SIZE	1630m <sup>2</sup>

Marvell City is a superblock shopping mall in Surabaya, Indonesia. The shopping center consists of 5 floors with well-known retail brands, such as Lotte Mart, CGV, Electronic Solutions, Fun World, J.CO Donuts, Pandora Escape Game, Tous Les Jours and many more. It is known in Surabaya as THE family oriented mall.

Aiming to achieve longevity and budget-conscious maintenance plans, the contractor was looking for a product which can consistently deliver a lifelong waterproofing result, without future maintenance costs for the project owner.

As CMA100® seals cracks in the concrete up to 2.2mm, it forms a barrier inside the concrete which waterproofs and protects the concrete for the life of the structure. It remains dormant in the concrete to seal future cracks, ensuring a life-long, leak free result.

# Ascott Apartments, Jakarta, Indonesia



Ascott Apartments had previously applied a waterproofing membrane which lasted for several years before developing cracks and leakages, requiring Ascott Apartments to undergo a disruptive and expensive replacement.

The leaking membrane was removed and replaced with CMA100™.

Unlike membranes which have a very limited lifespan, CWS100™ is **ONCE ONLY WATERPROOFING** that will continue to waterproof for the entire life of the project.

## SITE DETAILS

<b>COUNTRY</b>	Indonesia
<b>SITE</b>	Ascott Apartments
<b>APPLICATO</b>	PT Cipta Solusitama Internasional
<b>KEY ISSUE</b>	Replacing failed membrane
<b>AREA</b>	Rooftop

# Soekarno-Hatta Airport, Jakarta, Indonesia



PROJECT DETAILS	
<b>COUNTRY</b>	Indonesia
<b>SITE</b>	Terminal 3 Bandara
<b>CLIENT</b>	Soekarno-Hatta Jakarta Airport
<b>GENCON</b>	Kanahape Indonesia (KSO)
<b>APPLICATOR</b>	Cipta Solusitama Internasional
<b>AREA</b>	Passenger Boarding Bridges (PBB)

The Terminal 3 Bandara, of Soekarno-Hatta airport in Jakarta is serving 25 million passengers per year.

Known for its eco-friendly construction, the airport opted to choose waterproofing materials that protect the environment, without sacrificing performance.

CMA100 was chosen for the waterproofing of passenger board bridges (PBB), which are exposed to thermal stress and harsh weather conditions, as it offers lifetime concrete waterproofing and protection.



# Samarinda Medical Centre, East Kalimantan Indonesia



## PROJECT DETAILS

<b>COUNTRY</b>	Indonesia
<b>SITE</b>	Samarinda Medical, East Kalimantan
<b>CLIENT</b>	Samarinda Medika Citra
<b>CONTRACTOR</b>	PT. Air Hidup Performindo
<b>AREAS TREATED</b>	Carpark 1490m <sup>2</sup>
<b>YEAR</b>	2024

# Dr. Saiful Anwar Hospital, Malang East Java, Indonesia



## PROJECT DETAILS

<b>COUNTRY</b>	Indonesia
<b>SITE</b>	Dr. Saiful Anwar Hospital
<b>CLIENT</b>	Regional Public Health Agency East
<b>CONTRACTOR</b>	PT. Air Hidup Performindo
<b>AREAS TREATED</b>	Carpark
<b>YEAR</b>	2024

# Shell Corp. Warehouse, Karachi, Pakistan



PROJECT DETAILS	
COUNTRY	Pakistan
SITE	Shell Lubrication Oil Blending Plant
CLIENT	Shell Corp.
CONTRACTOR	Fawchem Construction
CITY	Karachi
AREAS TREATED	Rooftop
YEAR	2022

The rooftop of the warehouse was badly leaking, after repeated failure of traditional membranes previously applied.

In the scope of this project, it was observed that the roof deck had been layered with membranes and screed, both of which had experienced failure. This compromised state allowed water ingress into the warehouse areas below. Given the significant damage to the underlying substrate, it became evident that a comprehensive solution was required. Thus, all materials were meticulously removed down to the deck substrate to assess the extent of the damage incurred by the underlying rooftop slab.

Although Shell have Flintkote, their own membranes, they chose to install CMA100 on their warehouse rooftop.

**CMA100** was applied, to seal existing static cracks up to 2.2mm and to waterproof the entire rooftop area. Spraying the product on the curved surface of the rooftop was a much easier and faster process than re-applying membranes, which would fail again in future.

**CMA100** needs no re-application in future.

# Torre Z CarPark, Sao Paulo Brazil



PROJECT DETAILS	
COUNTRY	Brazil
SITE	Torre Z Carpark
CLIENT	SP Corporate
CONSULTANT	Pickard Chilton & Pontual
CONTRACTOR	Arquitetura Hines
AREAS TREATED	Rooftop
YEAR	2023

Torre Z is a AAA (triple A) commercial building in Sao Paulo and is among the best buildings in the region due to its corporate image and technical specifications, in addition to having LEED Gold C&S and Platinum O&M Green Building certification.

However, even on the best buildings traditional waterproofing systems eventually fail.

**CMA100** was applied, to re-waterproof leaking portions of the carpark of the magnificent building. **CMA100 needs no re-application in future and doubles the service life of projects. It is ideal for car parks, as it hardens concrete to Grade 9 of the Mohs scale and does not need a screed for protection.**

# Edifício Top Class Corporate, Brazil



The city of Balneário Camboriú in Brazil, is considered the fourth best city to live in Brazil, classified by the criteria of the United Nations Development Program.

The 23 floor Top Class Corporate is a high luxury serviced office building for high net-worth companies, in the center of the city. Its amenities include a helipad, a fully equipped gym and even an auditorium and rotating parking.

Rainwater is used throughout the building for cleaning and taking care of its plush gardens.

A full system approached was implemented, deploying both CMA- Admix and CMA100, to waterproof the helipad, building rooftop and water tanks, to the full satisfaction of the project owner.

SITE DETAILS	
<b>COUNTRY</b>	Brazil
<b>DEVELOPER</b>	Edifício Top Class Corporate
<b>OWNER</b>	Cioplan Planejamento e Construções
<b>WATERPROOFING PRODUCT</b>	Netherland Engenharia CMA Admix and CMA100
<b>AREAS</b>	Helipad, water tanks, rooftop

# Sorocaba Sewage Plant, Sorocaba, Brazil



SITE DETAILS	
COUNTRY	BRAZIL
SITE	Sorocaba Sewage ETE S1
CLIENT	SAAE
APPLICATOR	Netherland Engenharia
AREA	Tanks
YEAR	2020

Sorocaba's sewage collection and removal network, with 1,030 kilometers in length, serves 98% of the population and remains in **constant expansion**, following the city's growth.

Sorocaba's first sewage treatment plant, ETE S-1, has the capacity to treat up to 100 million liters of sewage per day, that is, 44% of the total sanitary effluent discharged into the river Sorocaba.

Aiming to waterproof the water tanks, ensuring lifetime waterproofing and potential future cracksealing, in order to protect the beautiful eco-system, SAAE (Serviço Autônomo de Água e Esgoto de Sorocaba), chose CMA100, for:

- concrete waterproofing and protection
- successful record from other similar sites
- speed of application

At 6,000m<sup>2</sup> of application per day, by a single applicator, the construction time and associated cost is dramatically reduced. The ease of application minimizes human error and there is no need for future maintenance, as is the case with traditional methods.

# PCH Alvez Hydroelectric plant, Brazil



CMA Admix® is not only perfect for concrete waterproofing, it is also ideal for concrete protection against chloride ingress and subsequent rebar corrosion, on applications such as marine structures, sewage plants etc. Also, the protection of marine eco-systems is ensured, as CMA Admix is certified non-toxic and safe for use with drinking water.

By sealing cracks in the concrete, CMA Admix® will prevent the ingress of chloride and harmful chemicals, which attack the reinforcement and cause degradation of the concrete, thus dramatically increase the service life of critical infrastructure projects.

SITE DETAILS	
<b>COUNTRY</b>	Brazil
<b>SITE</b>	PCH Alvez Powerhouse
<b>CLIENT</b>	Hydroelectric plant Hyrazil Energia
<b>KEY ISSUES</b>	<input type="checkbox"/> Complete protection from chlorides <input type="checkbox"/> Protection of marine environment
<b>AREA DONE</b>	Hydro electric plant

# PCH Fazenda Velha Hydroelectric Plant, Brazil



SITE DETAILS	
<b>COUNTRY</b>	Brazil
<b>SITE</b>	PCH Fazenda Velha
<b>CLIENT</b>	Hy Brazil / TOCTAO
<b>MAIN CONTRACTOR</b>	GWM Engenharia
<b>KEY ISSUE</b>	Concrete protection
<b>AREA DONE</b>	Utilities gallery

Because CMA-Admix™ is equally effective against negative and positive water pressure, it was the perfect fit for this Hydroelectrical Plant in Brazil. Showing just how versatile CMA product are.

CMA-Admix™ provides dormant waterproofing protection for the concrete – the chemical reaction will reactivate years after application if moisture penetrates the concrete.



# Festval, Curitiba, Brazil



## SITE DETAILS

<b>COUNTRY</b>	Brazil
<b>CLIENT</b>	Festval
<b>APPLICATOR</b>	Netherland Engenharia
<b>KEY ISSUE</b>	Waterproof, protect and repair

On this site CMA Admix™ proved a simple and effective method to waterproof and protect the concrete structure. CMA Admix™ remains dormant in the concrete and will reactivate on future contact with water.

The owners of this project were frustrated by recurring leaks in the building. Our Brazilian representative, Netherland Engenharia, solved their problem with CMA-Admix™. They broomed CMA Admix onto the leaking areas as a slurry. Unlike membranes, CMA-Admix cannot delaminate, deteriorate, puncture or be damaged, thus waterproofing the building for life.

# CNH Industrial, Curitiba, Brazil



## SITE DETAILS

<b>COUNTRY</b>	Brazil
<b>SITE</b>	CNH Industrial Plant
<b>MAIN CONTRACTOR</b>	Renaldi Engenharia Civil
<b>APPLICATOR</b>	Netherland Engenharia
<b>KEY ISSUE</b>	Waterproof and harden
<b>AREA DONE</b>	Industrial flooring

Curitiba New Holland industrial plant, manufacture vehicles that keep the agriculture industry growing. From tractors to trucks and buses, as well as powertrain solutions and marine vehicles. A constant flow of heavy machinery demands a durable product.

CMA100 was applied to the industrial concrete floor to waterproof and protect. Hardening the concrete to the same level as granite. Expensive re-application will not be needed in years to come. A fast and viable solution for the required specifications.

# Artificial Lake, Curitiba, Brazil



SITE DETAILS	
<b>COUNTRY</b>	Brazil
<b>SITE</b>	OVD Headquarters
<b>CLIENT</b>	OVD
<b>CONTRACTOR</b>	Rinaldi Engenharia
<b>PROBLEM AREA DONE</b>	CMA-Admix compatibility with other admixtures

Usually projects require a combination of products, rather than a single product, that is why CMA coordinated system-approach was used for this job too, to achieve a leak-free artificial lake project. CMA Admix® was used on concrete and pour joints were treated with CMA Waterstop.

Called Espelho D' Água, which means

“Water Mirror”, this artificial lake project, is a small jewel in Curitiba, Brazil.

# Port of Salaverry Grain Silos, Peru



Salaverry is a port town, located 14 kilometres southeast of Trujillo city in the La Libertad region, in Peru.

The project consists of 24 concrete silos, for the needs of the area. Each silo has a capacity of 2.800 tons of grain, that needs to be protected against humidity and decay.

**CMA-Admix** was chosen among several crystalline waterproofing products, for its advanced technology, fixed dosage that simplifies application and lifetime waterproofing, which ensures better preservation of the grain and safety.

SITE DETAILS	
<b>COUNTRY</b>	Peru
<b>SITE</b>	Port Terminal of Salaverry
<b>CLIENT</b>	Puertos S.A
<b>PROJECT</b>	Grain Silos
<b>CONTRACTOR</b>	Redram
<b>YEAR</b>	2021

# Port of San Martin, Paracas, Peru



SITE DETAILS	
COUNTRY	Peru
SITE	Port of San Martin
MAIN CONTRACTOR	Tucuman Engenharia
KEY ISSUE	Protects against chloride ingress

In addition to waterproofing, CMA 100™ increases the hardness of concrete to the same level of granite and fills cracks. All vital benefits for the protection of concrete against heavy containers passing through this port.

At the Port of San Martin, CMA100™ was used to protect the wharf against water and chloride ingress. A major benefit was the speed of application in larger areas such as this.

# Football Headquarters, Luque, Paraguay



SITE DETAILS	
<b>COUNTRY</b>	Paraguay
<b>SITE</b>	Paraguayan Football Association Headquarters
<b>MAIN CONTRACTOR</b>	Gómez Abente
<b>APPLICATOR</b>	Propaco
<b>KEY ISSUE</b>	Lifetime Waterproofing

The new administrative headquarter facilities of the Paraguayan Football Association, located on the premises of the Paraguayan Olympic Committee in the city of Luque, is the most modern in the region. According to sources of La Nación Deportes, the project is worth USD 3,300,000.

CMA products were perfect for this massive undertaking as they are fast to apply and waterproof the concrete for life. Both CMA100 and CMA-Admix remain reactive in the concrete for the life of the structure.

# Edificio Bali III, Altos, Paraguay



Located in front of a Crystal Lagoon, overlooking the Altos mountains, Bali III offers all the comforts for a weekend within the AquaVillage Condominium.

SITE DETAILS	
<b>COUNTRY</b>	Paraguay
<b>SITE</b>	Edificio Bali III
<b>MAIN CONTRACTOR</b>	AGB
<b>APPLICATOR</b>	Propaco
<b>KEY ISSUE</b>	System Approach to waterproofing

Propaco needed a product which could deliver a SYSTEM APPROACH to lifelong waterproofing. Additionally, CMA-Admix™ increases workability of the concrete but does not affect the compressive strength.

It considerably saves time because it is added to the concrete during the pour.

# INPASA Cooling Tower, San Pedro, Paraguay



## SITE DETAILS

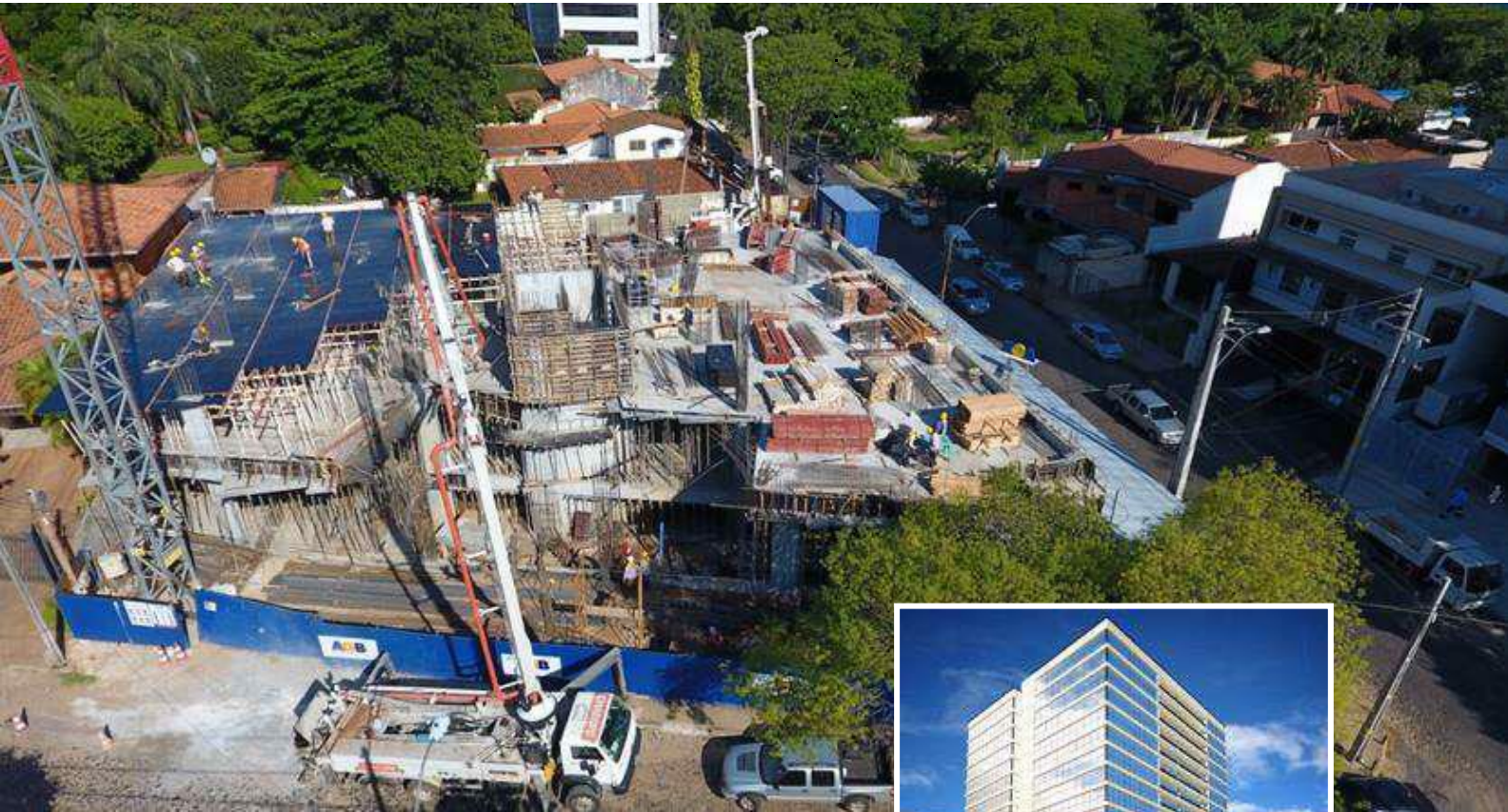
<b>COUNTRY</b>	Paraguay
<b>CLIENT</b>	Paraguayan Industry of Alcohols S.A
<b>SITE</b>	Liberacion, San Pedro
<b>APPLICATOR</b>	Propaco
<b>KEY ISSUE</b>	Resistance to chemicals
<b>YEAR</b>	2018

Paraguayan Industry of Alcohols is a biodiesel, ethanol, and sugar processing plant. Processing millions of quantities per month.

CMA 100™ increases resistance to chemical attack. Once the concrete is treated with CMA 100™, it cannot be damaged by other trades on site and is suitable for either horizontal or vertical surfaces, making it the perfect choice for this project.



# Edificio Park Plaza, Paraguay



## SITE DETAILS

<b>COUNTRY</b>	Paraguay
<b>SITE</b>	Edificio Park Plaza
<b>MAIN CONTRACTOR</b>	AGB
<b>APPLICATOR</b>	Propaco
<b>KEY ISSUE</b>	Eco friendly waterproofing

Edificio Park Plaza is a commercial building with 15 levels, occupying an area of 15 000m<sup>2</sup>. As the project values the importance of using eco-friendly materials, Propaco's deciding factor came down to using a product that is as environmentally friendly as possible.

CMA products were chosen because it does not contain significant ecological or health damaging content, no VOC's and only needs to be applied once. It is suitable for use in potable water and would be expected to earn credits towards certification such as LEED, BCA and GBI.

# St. Mark's College Rooftop Carpark, Australia



SITE DETAILS	
<b>COUNTRY</b>	Australia
<b>SITE</b>	St Mark's College Car Park
<b>APPLICATOR CONSULTANT</b>	Inconmat Australia WGA
<b>KEY ISSUES</b>	Waterproofing solution, with no slip resistance factor change.
<b>SIZE</b>	1000m <sup>2</sup>

**AREA DONE**      Rooftop Carpark

Beautiful Adelaide, South Australia is well known as the city of churches.

Leading Engineers WGA specified CMA100 as the waterproofing solution of choice, for the top deck on the new St Marks College car park, near St Peter's Cathedral.

Not only does CMA100 ensure life-time water proofing, it also presents no change to the slip resistance of the surface, which is an important safety factor for rooftop car parks, especially under rainy conditions.

# Water Retention Tanks, Sydney Australia



SITE DETAILS	
<b>COUNTRY</b>	Australia
<b>SITE</b>	Pymble, NSW
<b>CONTRACTOR</b>	Prime Constructions
<b>CONSULTANT</b>	Griffiths Engineers Australia
<b>KEY ISSUE</b>	Leak - free project
<b>AREA</b>	Water Retention Tanks
<b>YEAR</b>	2020

In order to conserve water and look after the environment most commercial buildings in NSW have water retention tanks to store rainwater for use within the building.

In this case the wall was blockwork and CMA Admix was mixed into ready-made form and trowelled onto the inside of the wall. CMA Admix ensures a leak-free project and is also suitable for use with potable water.

# Sea Haven Apartments, Sydney, Australia



SITE DETAILS	
<b>COUNTRY</b>	Australia
<b>SITE</b>	The Sea Haven Apartments
<b>APPLICATOR</b>	CMA
<b>KEY ISSUE</b>	Chloride ingress / Lifespan
<b>AREA DONE</b>	Rooftop and balconies

The Sea Haven Apartments are located directly across from a surfing beach in Sydney. Consequently, the developers were concerned about the effect of salt spray on the concrete. It was imperative that whatever solution they chose would prevent the ingress of not only water but chloride.

After researching many alternatives, they elected to apply CMA100™ to the exposed concrete. The building is still in perfect condition and CMA100™ will continue to protect it well into the future.

# The Cove Apartments, Wollongong, Australia



SITE DETAILS	
<b>COUNTRY</b>	Australia
<b>SITE</b>	The Cove Apartments
<b>APPLICATOR</b>	CMA
<b>KEY ISSUE</b>	Permanent waterproofing solution
<b>AREA DONE</b>	Rooftop and balconies

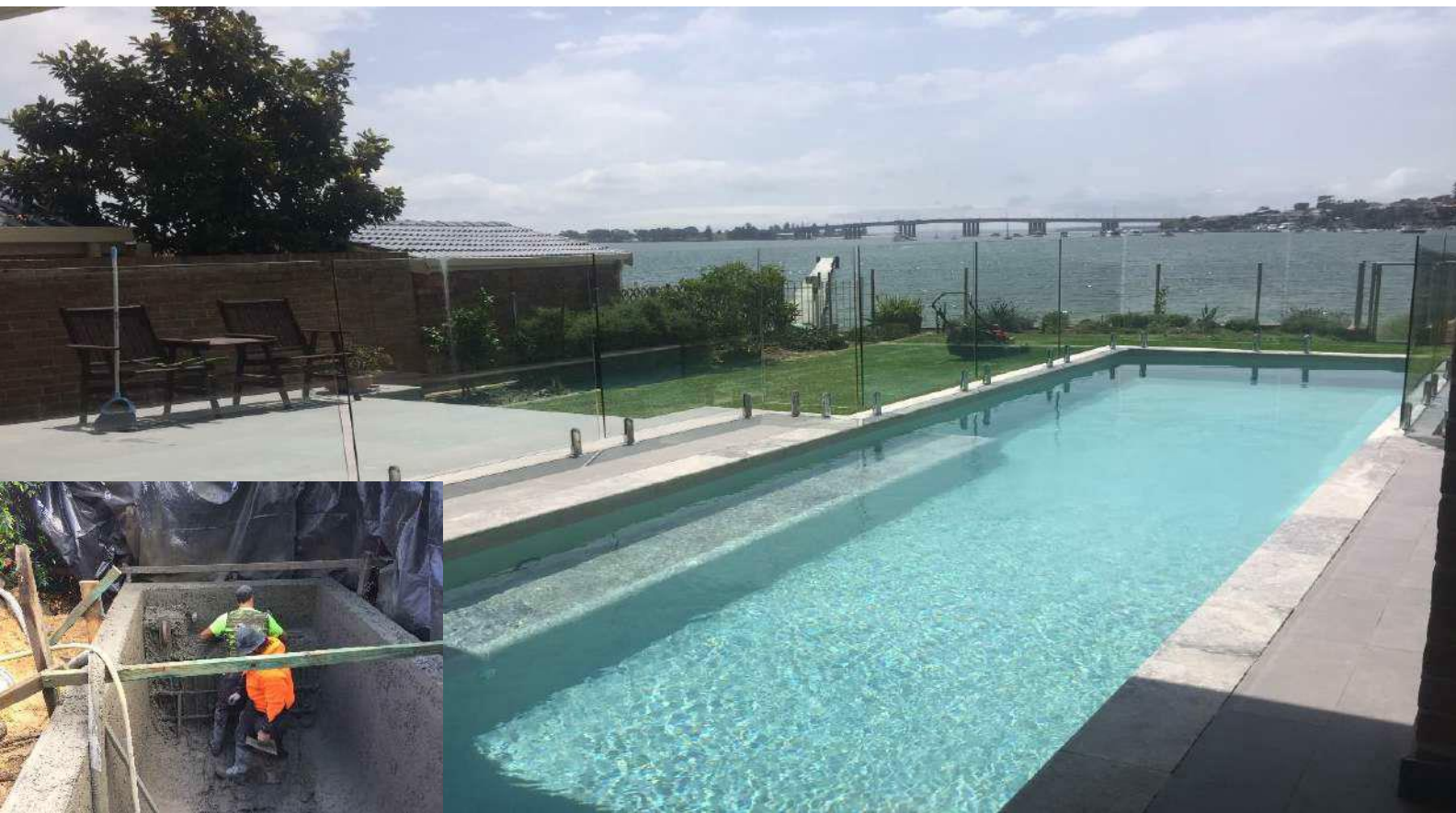
The Cove Apartments is an up-market development in Wollongong, Australia.

The owner sought a product that would provide a permanent waterproofing solution without having to replace a costly membrane every 10-15 years.

CMA100™ was applied to the rooftop and balconies and to this day, many years later, the building is in perfect condition.

A testimony to the longevity of CMA100™.

# Swimming pools, Sydney Australia



SITE DETAILS	
<b>COUNTRY</b>	Australia
<b>SITE</b>	Various
<b>CONTRACTOR</b>	Silhouette Pools
<b>KEY ISSUE</b>	Concrete protection
<b>AREA</b>	Swimming pools
<b>YEAR</b>	2020

Not only perfect for waterproofing, CMA100 is a perfect solution for any swimming pools with different sizes and shapes, as it seals the cracks in the concrete and prevents the ingress of chemicals which attack the reinforcement and cause degradation of the concrete.

Silhouette Pools applies CMA100 to many of their pools as a further safeguard against water loss and to prevent water reaching the steel.

# San Fernando Gen. Hospital, Trinidad



## PROJECT DETAILS

<b>COUNTRY</b>	Trinidad & Tobago
<b>SITE</b>	San Fernando Hospital
<b>CLIENT</b>	Ministry of Health T & T
<b>CONTRACTOR</b>	Dover Waterproofing Tech
<b>AREAS TREATED</b>	Carpark 1672m <sup>2</sup>
<b>YEAR</b>	2023



The Architect selected CMA 100 Waterproofing for the 1672m<sup>2</sup> carpark of the San Fernando General Hospital in Trinidad, to waterproof the structure as well as to protect it from attack of sodium hydroxide and other chemicals because of the structure's proximity to the sea.

**CMA100** was chosen, for the permanent repair of the hospital's carpark.

CWS100 is ideal for car parks, as it **simultaneously waterproofs and protects** the concrete **against abrasion and wear** from heavy rolling loads, hardening the concrete to Grade 9 of the Mohs scale, which is higher than granite hardness. **CMA100 seals static cracks on concrete, up to 2.2mm**



Waterproof  Concrete. For life.

# Curepe Interchange, Trinidad & Tobago



*Incredible traffic jams were the standard for several years, making the situation impossible for the commuters*

In the year 2012, the National Infrastructure Development Company Limited (NIDCO) of Trinidad & Tobago undertook a traffic study, to assess the impact of the then proposed Curepe Interchange. It collected and

analysed traffic volume data and made projections for the year 2040. The study, that took into account geography, community needs and sustainability, revealed that the superstructure would create several waves of relief:

- Morning delays through the Curepe intersection on CRH would decrease **from about 11 minutes to 19 seconds** per vehicle and afternoon delays would decrease even more dramatically, **from about 22 minutes to 19 seconds** per vehicle

On the Southern Main Road:

- Morning delays would decrease **from 9.5 minutes, to 35 seconds** per vehicle and afternoon delays would decrease **from 21 minutes, to about 1 minute** per vehicle

CMA100 was the material of choice for waterproofing the impressive flyover of the interchange. Its *super-fast* application dramatically reduced work-time and helped meet deadlines, while its lifetime waterproofing capability, ensures long-term performance without any maintenance. Its ability to withstand thermal stress is beyond the abilities of any crystalline waterproofing, while it ensures lifetime protection against chloride and sulfate ingress.

SITE DETAILS	
COUNTRY	Trinidad & Tobago
SITE	Curepe Interchange
CLIENT	NIDCO (National Infrastructure Development Company)
CONSULTANT	Planning Associates Ltd
CONTRACTOR	China Railway Joint Venture
YEAR	2020



# Heartland Residences, Trinidad-Tobago



Property Development residential project situated in Heartland Estate, in Santa Cruz, Trinidad-Tobago.

The complex comprising of 18 independent residences received lifetime waterproofing with CMA100 permanent waterproofing system.

Each rooftop measured 176.5m<sup>2</sup> and the CMA100 application was done, after proper detailing was performed on cold-joints and penetrations.

SITE DETAILS	
<b>COUNTRY</b>	Trinidad - Tobago
<b>SITE</b>	Heartland Residences
<b>DEVELOPER</b>	Heartland Development Company
<b>APPLICATOR</b>	Dover Waterproofing
<b>AREA</b>	Rooftops, parapet walls
<b>YEAR</b>	2022

# The Residence at South Park, Trinidad



SITE DETAILS	
<b>COUNTRY</b>	Trinidad
<b>SITE</b>	The Residence at South Park
<b>OWNER</b>	Amera Caribbean Development
<b>CONTRACTOR</b>	RHL Group
<b>KEY ISSUE</b>	Lifetime maintenance-free waterproofing
<b>AREA</b>	Rooftops, and water related areas
<b>YEAR</b>	2021

The Residence at South Park in Trinidad.

The two 9 storey luxury apartment buildings, next to the South Park Mall in San Fernando, consist of 72 apartment, of which 8 penthouses.

Amera Caribbean Development, saw great potential in this bushy and hilly area and has a vision to develop this part of the city, with a Mall, a group of 9 similar residential complexes and soon a business hotel.

CMA100 was the waterproofing solution of choice for RHL Group, for its lifetime, maintenance-free waterproofing capabilities and it was applied on the rooftops, the kiosk and the swimming pool, as well as at the water tanks and all other water features of the complex.

# US Condo, Cambodia



SITE DETAILS	
COUNTRY	Cambodia
SITE	Tuol Kok
CLIENT	US Condo
PLACE	Pnom Penh
KEY ISSUE	Repeated membrane failures
AREA TREATED	Rooftop

Traditional membranes have no crack sealing ability. If the concrete beneath the membrane cracks to any significant degree, the membrane will split, tear away from the surface and leak permanently. **This project had been repaired twice**, once with traditional membranes and once with elastomer waterproofing. It still leaked when our Authorised Applicator got there! When membranes fail, they cause big problems, that take time and money to repair properly. CMA100® fixes faults in the concrete, rather than hide them. With its excellent crack sealing ability, it seals static cracks up to 2.2 mm.

# UK Tower, Cambodia



## PROJECT DETAILS

<b>COUNTRY</b>	Cambodia
<b>SITE</b>	UK Tower
<b>GENCON</b>	999
<b>APPICATOR</b>	LU Concrete
<b>CITY</b>	Phnom Penh
<b>AREA TREATED</b>	Rooftop, planterbox and Sky ba lift pit and bathrooms, water tan and septic tank, hot tub and col plunge tank, swimming pool, 1-Basement walls <b>Total area treated: 8.869m<sup>2</sup></b>

# Westland International School, Cambodia



PROJECT DETAILS	
COUNTRY	Cambodia
SITE	Westland International School
GENCON	Represent
APPLICATOR	LU Concrete
CITY	Phnom Penh
KEY ISSUE	Permanent Waterproofing of new school building
AREA TREATED	Rooftop and bathrooms <b>Total area treated: 2,889m<sup>2</sup></b>

# 29 Mithona, Sihanoukville, Cambodia



PROJECT DETAILS	
COUNTRY	Cambodia
SITE	28 Mithona
ARCHITECT	Mey Marady
GENCON	999
APPLICATOR	LU Concrete
CITY	Phnom Penh
KEY ISSUE	Waterproofing for life a new project
AREA TREATED	Rooftop, Sky Bar, underground water tank and septic tank, car ramp, swimming pool, hot tub, cold plunge tank. <b>Total area treated: 5.586m<sup>2</sup></b>

# UK Plaza, Cambodia



SITE DETAILS	
COUNTRY	Cambodia
SITE	UK Plaza
CLIENT	UK Condo
GENCON	999
ARCHITECT	MEY MARADY
AREA TREATED	Rooftop and Sky Bar, water tank, septic tank, lift pit, above ground bathrooms, balcony, swimming pool, hot tub and cold plunge tank, indoors and outdoors restaurant <b>Total area: 5.879m<sup>2</sup></b>

# CSCC Condo, Cambodia



Traditional membranes have no crack sealing ability. If the concrete beneath the membrane cracks to any significant degree, the membrane will split, tear away from the surface and fail.

CMA100 seals cracks up to 2.2mm and waterproofs for the life of the structure.



SITE DETAILS	
COUNTRY	Cambodia
SITE	CSCC Condo
CLIENT	CSCC
APPLICATOR	LU Concrete
PLACE	Phnom Penh
KEY ISSUE	Permanent waterproofing on
AREA TREATED	<u>new structure</u> 1-3 Basements



# UK Condo 313, Cambodia



SITE DETAILS	
COUNTRY	Cambodia
SITE	TK 313
CLIENT	UK Condo & Property Ltd
PLACE	Phnom Penh
KEY ISSUE	Permanent waterproofing
AREA TREATED	Underground septic tank, watertank inside Mekong River, Hot Tub and Cold plunge tank. <b>Total area: 5135m<sup>2</sup></b>



# Park Cafe, Cambodia



SITE DETAILS	
COUNTRY	Cambodia
SITE	Park Cafe
CLIENT	United Food
PLACE	Phnom Penh
KEY ISSUE	Leaks from
AREA TREATED	cracked concrete Water fountain

# UK Condo 548, Cambodia



SITE DETAILS	
<b>COUNTRY</b>	Cambodia
<b>SITE</b>	Project 548
<b>CITY</b>	Phnom Penh
<b>CLIENT</b>	UK Property
<b>APPLICATOR</b>	LU Concrete
<b>KEY ISSUE</b>	Permanent waterproofing
<b>AREA TREATED</b>	Rooftop and sky bar, balconies, car-ramp, bathrooms, underground water tank and septic tank. <b>Total area: 4.213m<sup>2</sup></b>

# US Monirath, Cambodia



PROJECT DETAILS	
<b>COUNTRY</b>	Cambodia
<b>SITE</b>	MoniRath building
<b>CLIENT</b>	US Condo
<b>ARCHITECT</b>	Mey Marady
<b>GENCON</b>	999
<b>APPLICATOR</b>	LU Concrete
<b>CITY</b>	Phnom Penh
<b>KEY ISSUE</b>	Repeated membrane failures
<b>AREA TREATED</b>	Rooftop, Sky Bar, underground water tank and septic tank, car ramp, swimming pool, hot tub, cold plunge tank inside restaurant, lift pit, balconies

# LBL BRCM Building, Cambodia



PROJECT DETAILS	
COUNTRY	Cambodia
SITE	BRCM
GENCON	LBL international
APPLICATOR	LU Concrete
CITY	Phnom Penh
KEY ISSUE	Permanent waterproofing, fast application
AREAS TREATED	Rooftop and planterbox, underground water Tank and septic tank, lift pit and car ramp

# Tainionkoski Bridge, Imatra, Finland



CMA waterproofing technology was chosen to protect this Finnish bridge, in order to extend its future life.

Both CMA100 and CMA-Admix give protection to concrete, by preventing the ingress of water and chlorides into the matrix.

Actually, this was a repair to an existing bridge and hence the speed of application was important, because it was not possible to close the bridge for long periods.

The bridge crosses the Vuoski river in a scenic area of eastern Finland and because CMA products are eco-friendly they were considered ideal for this environment.

PROJECT DETAILS	
<b>COUNTRY</b>	Finland
<b>SITE</b>	Imatra, Finland
<b>KEY ISSUE</b>	Concrete protection
<b>OTHER ISSUES</b>	Speed of application Environmentally Friendly
<b>AREA</b>	Bridge pillars and deck
<b>YEAR</b>	2020

# Swimming Pool, Uusikaupunki, Finland



PROJECT DETAILS	
COUNTRY	Finland
SITE	Wintteri Campus
ARCHITECTS	Architects von Boehm-Renell Oy and SRV Rakennus Oy
CITY	Uusikaupunki
AREAS TREATED	Swimming Pool
YEAR	2023

CMA-Admix® has been used in the castings of the swimming pools of Wintteri campus in Finland and it was chosen because it provides easy-to-use waterproofing, which also extends the service life of the structure.

CMA-Admix® is excellent for structures that are subject to water pressure, such as swimming pools or water tanks. It forms insoluble crystals in the capillary pores of the concrete, creating a permanent, waterproof structure for the entire life cycle. CMA-Admix® has an unlimited shelf life and is dosed directly into the concrete mass (0.8 kg/m<sup>3</sup>), thus saving on waterproofing costs by avoiding separate work steps.

**CMA Admix® is listed in the building product database of the Nordic environmental label and can be used in Swan-labelled buildings.**



# Pohjola Residences, Finland



## PROJECT DETAILS

<b>COUNTRY</b>	Finland
<b>SITE</b>	Pohjola Residences
<b>CLIENT</b>	As. Oy Turun Herttua
<b>CONTRACTOR</b>	Pohjola Rakennus
<b>CITY</b>	Turku
<b>AREAS TREATED</b>	Below ground structure
<b>YEAR</b>	2023

**The foundations of the buildings are protected by CWS Admix® crystalline waterproofing technology**

The new Linnakaupungi neighborhood is being built in the harbor area of Turku, near Turunlinna, whose houses are surrounded by parks and the Archipelago Sea. The sensors of the buildings of As. Oy Turun Herttua located in the area, have chosen CMA-Admix® for protection, as it protects the concrete structure throughout its whole lifetime.

**Easy-to-use, economical and environmentally friendly waterproofing**

When added to concrete mass or mortar, CWS Admix® forms insoluble crystals in the capillary pores, which crystallize in the mass and effectively prevent the flow of water in the concrete, creating a permanent, watertight structure throughout its life cycle. CMA-Admix® does not contain volatile organic compounds and is non-toxic, so it is also safe to use for waterproofing drinking water basins and tanks.

**CMA-Admix® is listed in the building product database of the Nordic environmental label and can be used in Swan-labelled buildings.**



Waterproof  Concrete. For life.