

TOKYO SUPERMIX



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VISION

To be the leading partner in nation-building; setting standards that exceed expectations.


MISSION

Reinforcing market leadership by empowering our people, driving innovation, pursuing sustainable development, assuring consistent quality and committing to impeccable service; thereby building shareholder value and cementing consumer trust.



THE CONFIDENCE TO REACH HIGHER





TOKYO SUPERMIX is about building confidence. What we offer is not just a concrete mix, but the concrete confidence that your finished project, be it residential or commercial in nature, will reach its fullest potential. What sets us apart is our commitment to maintaining consistent quality across our products coupled with exceptional customer service in all aspects. By cultivating the right quality in concrete, we guarantee our consumers the peace of mind and confidence to expand further and reach greater heights.

Every component that goes into making **TOKYO SUPERMIX** is sent through an extensive quality check. How we ensure excellent results each and every time, is by backwards integration processes to source raw materials of the highest quality. The brand utilizes a fully automated manufacturing process that complies with international standards and is supported by Grade-A laboratory facilities at each plant to produce technologically advanced concrete solutions tailor-made to customer specifications.

With a presence that spans across the island, through our network of batching plants and a vast transportation fleet, we guarantee solutions in time for unparalleled efficiency. We give you the confidence of getting the right amount of the correct concrete mix, right on time at your site. Keeping our service offering unique in order to add value to your efforts, has always been one of our strongest suits. Our engagement with clients, engineers, sub-contractors and consultants focuses on building trusted partnerships that are unmatched in the industry.

TOKYO SUPERMIX is the trusted choice for building projects big and small, that redefine Sri Lanka's construction industry. We are the strength behind key projects from iconic structures gracing city skylines, to landmark bridges and highway networks; proof of our ability to deliver cost effective solutions of the highest standards.

We are humbled by the trust our clients have placed in us and strive every day to live up to our promise. Our ethos is to ensure that every step of our process adheres to international levels, resulting in a superior product.



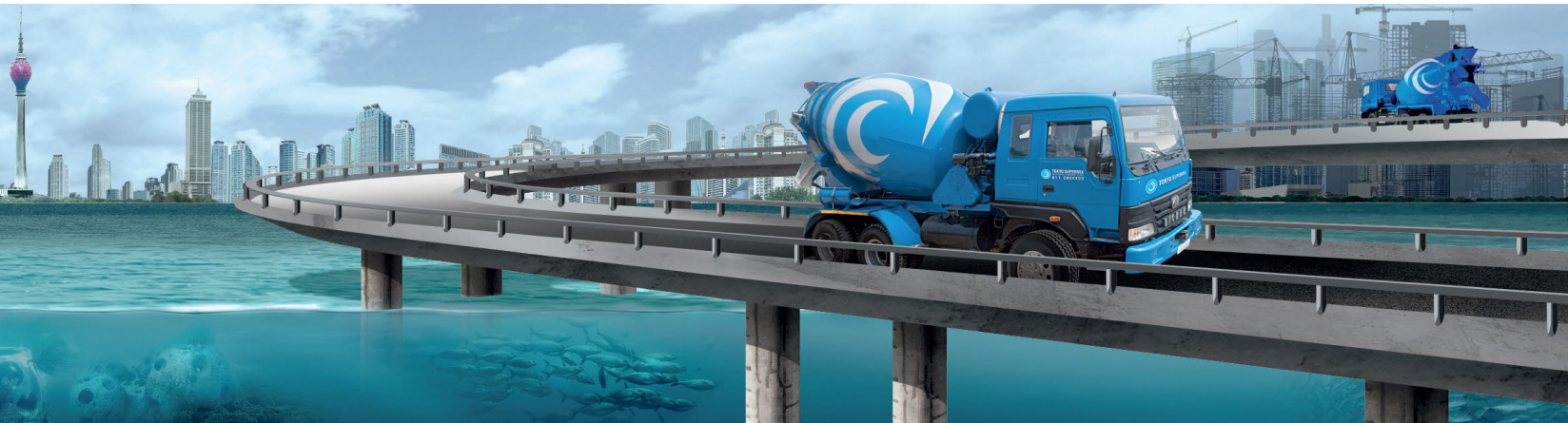
WHAT IS READY MIX CONCRETE?






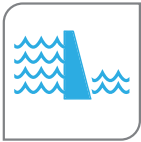
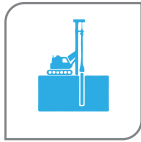






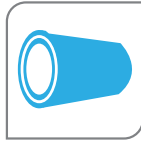
Concrete, as we all know is a mixture of cement, water and aggregates comprising of sand and crushed stone. Ready Mix Concrete (RMC) is concrete that is manufactured in a batching plant, according to a set formula ratio (called a mix design), and then delivered to your work site in trucks, mounted with in-transit mixers.

Ready Mix Concrete is:

- Superior in Quality
- Time & Cost Effective
- Convenient
- Environment-Friendly



Ready Mix Concrete is a versatile material that can be used for all types of concreting requirements such as:

High-Rises	Highways	Bridges	Dams	Piling	Irrigation Channels
					
Housing	Slabs	Flooring	Driveways	Sidewalks	Pre-Cast
					

WHAT IS READY MIX CONCRETE?





Due to a number of benefits compared to conventional methods used to make concrete (hand mixed & site mixed concrete) today, Ready Mix Concrete is widely preferred, especially by construction industry experts and even home-builders.

Ready Mix Concrete comes with a host of benefits in comparison to hand/site mixed concrete:

Quality		Hand/Site Mixed	Ready-Mix
Material Quality	● No storage contamination of raw materials	★	★★★★
	● Guaranteed accuracy in mixing quantities of raw material	★	★★★★
Process Quality	● Consistency of the concrete mix	★	★★★★
	● Range of expert developed mix designs to suit the requirement	★	★★★★
	● Efficiency & less probability of human error (due to automated mixing process)	★	★★★★
Quality Assurance	● A range of quality checks at different stages conducted by experts at advance checking facilities	★	★★★★

Time & Cost Effective		Hand/Site Mixed	Ready-Mix
●	Less labour, site supervision, energy & wastage costs	★	★★★★
●	Less dependency on labor & occurrence of human error	★	★★★★
●	Speed of construction & high efficiency	★	★★★★
●	Less time, effort & cost of site cleanup	★	★★★★

WHAT IS READY MIX CONCRETE?





Convenience		Hand/Site Mixed	Ready-Mix
Space Requirement	● No storage required for raw materials	★	★★★★
	● No area required for concrete preparation	★	★★★★
Ease of Handling	● Pumping ability across heights / distances	★	★★★★
	● Maintenance of site cleanliness	★	★★★★
	● Just-In-Time delivery	★	★★★★
	● Less co-ordination between multiple suppliers (material, labour etc.)	★	★★★★

Environmental Friendliness		Hand/Site Mixed	Ready-Mix
Resource Consumption	● Economic usage of raw material, results in saving natural resources	★	★★★★
	● Reduction in wastage	★	★★★★
Environmental Impact	● Less dust pollution due to usage of bulk cement instead of bagged cement	★	★★★★
	● Less noise and air pollution due to less consumption of fuel (petrol / diesel)	★	★★★★

**QUALITY
ABOVE
ALL ELSE**



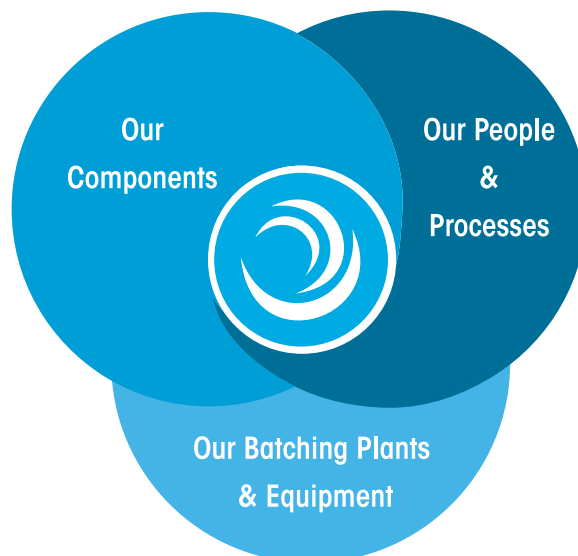
Why choose **TOKYO SUPERMIX Ready Mix Concrete?**

As pioneers of the industry, we at **TOKYO SUPERMIX** believe in continuous innovation and development, in order to offer the best solutions for your construction requirements. Having deployed world-class practices to sharpen our operational excellence, we are continuously improving our production capabilities to bring you more technologically advanced solutions adopted by leading construction firms across the globe.

With over decades of expertise, **TOKYO SUPERMIX** is supplied to thousands of construction sites islandwide, enabling them to expand their construction capabilities to stand the test of time. **TOKYO SUPERMIX** is proud to be the trusted choice of leading construction firms and building consultants, not only for local projects but also for multinational collaborations that have redefined the country's construction landscape. On many fronts, we have been the first and only supplier, with the ability to meet some of the demanding standards set by international developers behind landmark construction projects in Sri Lanka.

Our strengths have been identified under three main categories which ensure the quality, workability, strength and durability of **TOKYO SUPERMIX**.

- **Our Components**
- **Our People & Processes**
- **Our Batching Plants & Equipment**



THE COMPONENTS



TOKYO SUPERMIX, the nation's most trusted brand of Ready Mix Concrete is produced by the **TOKYO CEMENT GROUP**: the leading manufacturer of high quality cement. Unlike any other ready-mix manufacturer in Sri Lanka, this allows for unprecedented vertical integration and total control over our entire production process.

Every concrete solution we produce is made using highest quality raw materials with BS882, BS1881 and SLS107 certification, continuously tested and sourced from trusted suppliers. Manufacturing is done in PLC controlled concrete mixing batching plants, equipped with state-of-the-art machinery. The superiority of the concrete thus produced is assured further, by following an ISO 9001 certified concrete batching process.



Our commitment to use only **NIPPON CEMENT PRO**, the certified leader of the cement market, is what assures **TOKYO SUPERMIX's** consistent quality.

NIPPON CEMENT PRO is a special cement made with clinker imported from Japan which is especially designed for high rise buildings, including super-structures.

This has enabled **TOKYO SUPERMIX** to successfully produce the ultra-high strength grades of Ready Mix Concrete available in Sri Lanka, such as Grade 100, far exceeding the strength limits of our nearest competitors yet to reach even Grade 70.



TOKYO SUPERMIX uses river sand and manufactured sand which assures the concrete to maintain its quality.

Manufactured sand and coarse aggregate also enables us to standardize the particle sizes to further optimize the mix.

TOKYO SUPERMIX guarantees that sea sand is not used in any of our solution mixes, as it can compromise the quality and strength of the concrete.

THE PEOPLE AND THE PROCESSES





To ensure that we deliver on our promise, we employ a range of quality control mechanisms, from supplier plant evaluations to close-frequency testing of raw materials all the way up to final product prototypes. All our batching plants are accompanied by hi-tech concrete formulating and testing laboratories, to provide unparalleled transparency into what we produce and deliver to you.

Skilled and Qualified Staff

Our plants are manned by qualified professionals with a deep understanding of the product. Chemistry graduates function as quality controllers and are in charge of maintaining consistent quality in the concrete we provide.

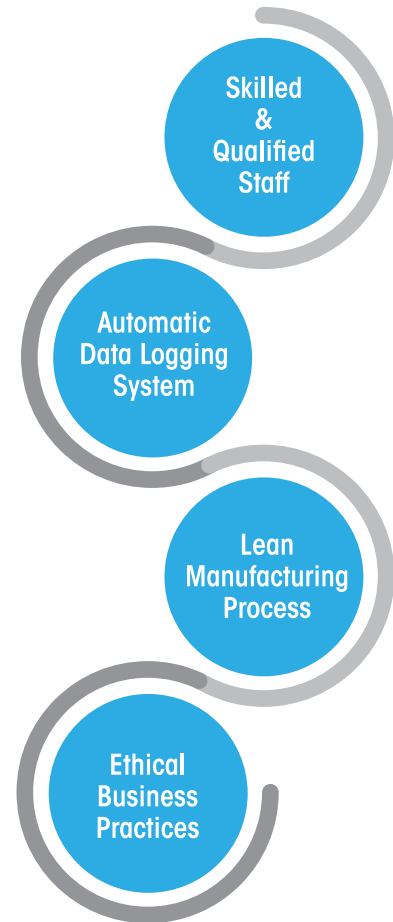
TOKYO SUPERMIX also believes in encouraging out-of-the-box thinking and keeping abreast with global trends in concreting technologies to keep re-engineering our solutions and meet dynamic demands.

Automatic Data Logging System

All **TOKYO SUPERMIX** Ready Mix Concrete plants are fully automated with report generation facilities, which gives us the ability to trace back each and every batch of concrete produced. Minimising manual intervention also helps us guarantee the consistency in our mix designs during the entirety of a project, whether large or small.

Lean Manufacturing Process

We follow a Lean Manufacturing process for manufacturing which helps us to reduce wastage and increase productivity. Reducing waste during the manufacturing process has minimized our carbon footprint, making us the most environmental friendly option in the market.



Ethical Business Practices

TOKYO SUPERMIX is the only batching plant that issues mixing data reports and weigh bridge reports of concrete weight to customers. This allows them to check whether the required volume of concrete is sent to the site. Combined with good business practices to ensure quality, this signifies **TOKYO SUPERMIX's** commitment to ethical business practices.

THE PEOPLE AND THE PROCESSES





Technologically Advanced Laboratory Testing

Each and every batch of **TOKYO SUPERMIX** Ready Mix Concrete undergoes a series of tests at three different stages of production, in order to ensure the quality, workability, strength and durability of the concrete is consistently maintained at required levels.

All our Ready Mix Concrete plants are equipped with modern laboratory and testing facilities which are handled by skilled technicians to maintain strict quality control. Further, **Tokyo Cement Group** has the only ISO 17025 certified cement & concrete R&D laboratory in the country, firmly cementing our No. 1 position in the market.



THE BATCHING PLANTS AND EQUIPMENT



The fully automated manufacturing process is monitored via a state-of-the-art software system, that takes care of mixing the right quantities of the right material for guaranteed consistency. Furthermore, we are equipped with weigh-bridges which can generate verifiable weight records to ensure the accuracy of material input.

Cement and fly ash is stored separately to prevent material contamination that can impact the mix design. In addition, we also have ice, flaked ice and chilled water storage facilities to manufacture special solution mixes such as temperature controlled concrete. All plants are supported by backup generators to ensure an uninterrupted power supply which is mandatory during large scale batch processing.

What sets us above the board is our fastest growing and farthest spread supply network, serviced by the largest fleet of concrete mixing trucks and pump cars, reaching all parts of the island. Comprising of pump cars, stationary pumps and bulk cement carriers, our fleet also includes over 100 truck mixers with special insulated drums to transport temperature controlled concrete to various sites.

We are proud of our strong supply fleet which provides an unmatched advantage to builders, introducing just-in-time delivery to the Sri Lankan construction industry.

TOKYO SUPEMIX Ready Mix Concrete plants around the country are ISO 9001 certified from Certification International (CI) UK with accreditation from United Kingdom Accreditation Service (UKAS).



QUALITY POLICY

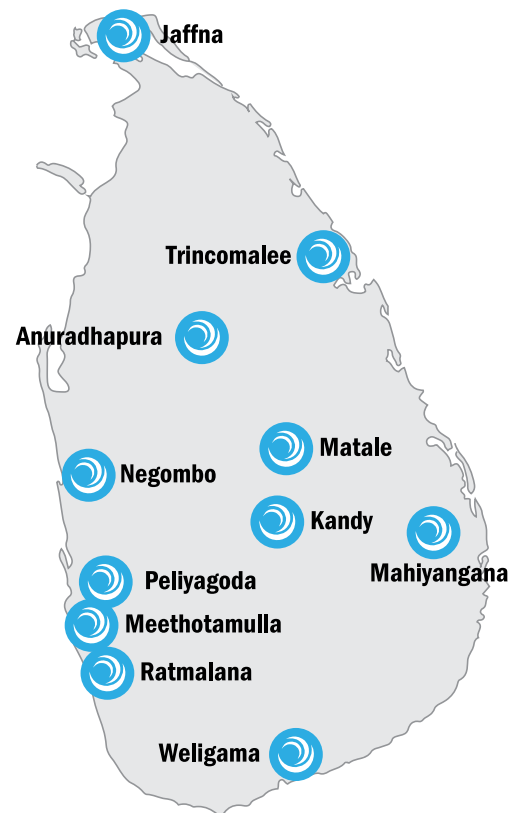
Our passion is to deliver '**Quality**' and '**Durability**' in the sphere of concrete construction through superior products. We always use **good/correct quality raw materials and technology** for our products and conform to regulatory and ethical business standards. We maintain a high level of **reliability of our machinery** to satisfy customer needs effectively whilst functioning in an **environmentally friendly manner**. Our **staff is trained** to be technically sound and offer a committed service to clients. We strive to create a **Lean Manufacturing environment** to optimize profitability. In order to achieve these in a continually improving manner we operate our business in line with best practices embedded in ISO 9001 Quality Management System

THE NETWORK



With the largest and most widely available Ready Mix Concrete batching plant network in Sri Lanka, **TOKYO SUPERMIX** Ready Mix Concrete can cater to worksites of any scale island wide. That's not all, **TOKYO SUPERMIX** is backed by a 24x7 sales and support hotline placing our solutions and our consultancy, right at your fingertips.

Total Supply Capacity
384m³/hr



A glimpse of our Peliyagoda TOKYO SUPERMIX Ready Mix Concrete batching plant complex

Our signature Ready Mix Concrete batching plant complex in Peliyagoda caters to a wide range of small to large scale construction projects in Colombo. The Peliyagoda batching plant is capable of providing a range of complex mix designs and customized designs according to your requirement, with a staggering output capacity of 90 cubic meters of concrete per hour (m³/hr).

- 2 B/Plants with capacities of 30m³/hr & 60m³/hr
- 4 Pump cars – 18m, 34m, 36m & 38m vertical reach
- Stationary pump with up to 90m pumping
- 30 GPS enabled truck mixers
- Bulk carrier for cement transport
- Sand sieving machine
- High capacity water chiller and refrigerated container for ice, ice crushing machines
- Standby Gen-sets for uninterrupted power
- 3 Wheel loaders
- Fully equipped test lab including 3000 kN compressive strength machine
- Weigh bridge

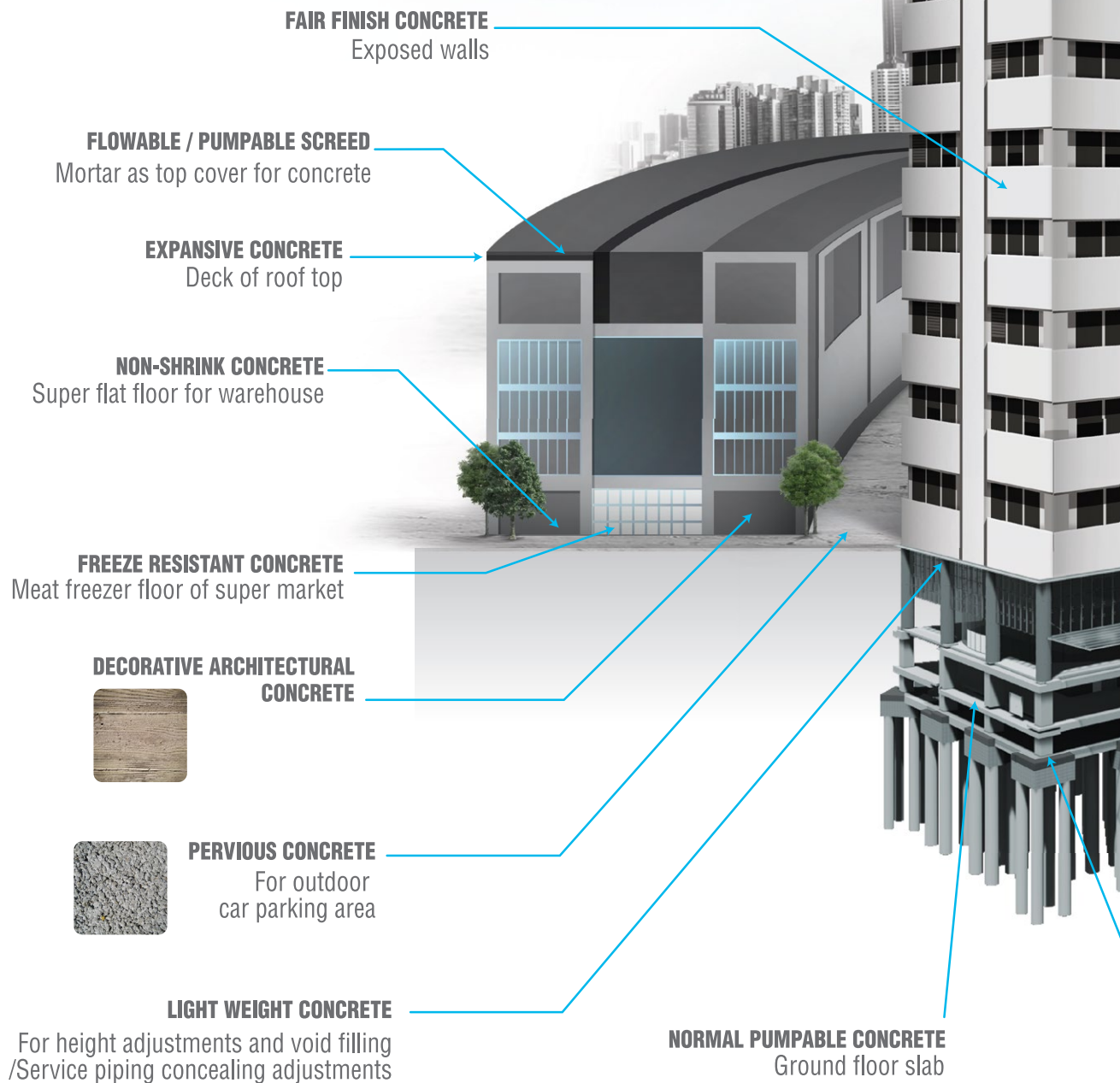


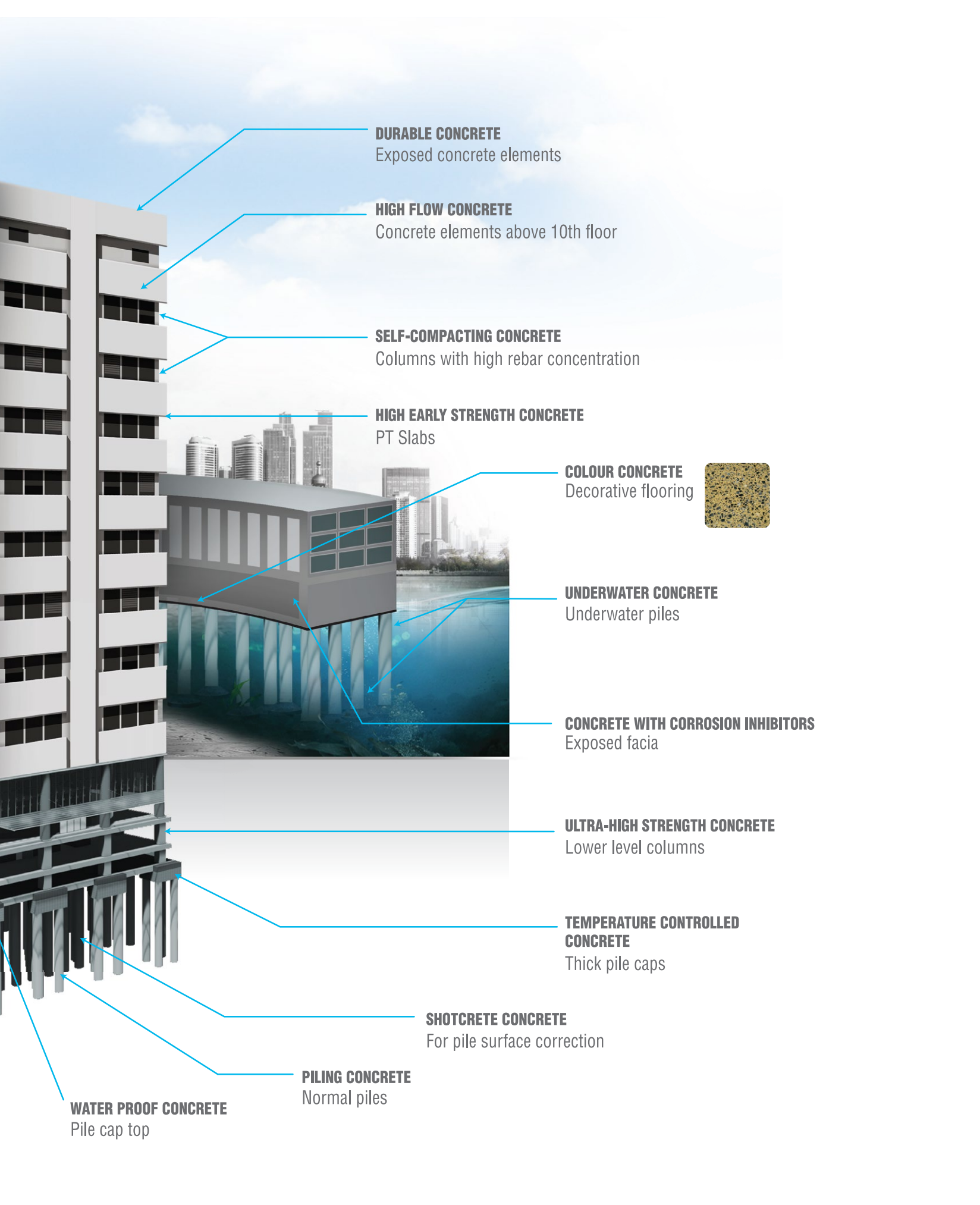


TOKYO SUPERMIX

CONCRETE SOLUTIONS

TOKYO SUPERMIX offers a range of mix-designs to satisfy varying customer requirements in a vast range of applications from high rise buildings, water projects, highways and bridges to decorative concrete for commercial and residential buildings. TOKYO SUPERMIX is proud to be the trusted choice of leading construction firms and building consultants, not only for local projects but also for multinational collaborations that are redefining the country's landscape.





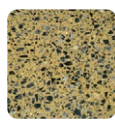
DURABLE CONCRETE
Exposed concrete elements

HIGH FLOW CONCRETE
Concrete elements above 10th floor

SELF-COMPACTING CONCRETE
Columns with high rebar concentration

HIGH EARLY STRENGTH CONCRETE
PT Slabs

COLOUR CONCRETE
Decorative flooring



UNDERWATER CONCRETE
Underwater piles

CONCRETE WITH CORROSION INHIBITORS
Exposed facia

ULTRA-HIGH STRENGTH CONCRETE
Lower level columns

TEMPERATURE CONTROLLED CONCRETE
Thick pile caps

SHOTCRETE CONCRETE
For pile surface correction

PILING CONCRETE
Normal piles

WATER PROOF CONCRETE
Pile cap top

CASE STUDIES





TOKYO SUPERMIX offers a range of mix-designs to satisfy varying customer requirements in a vast range of applications from high rise buildings, water projects, highways and bridges to decorative concrete for commercial and residential buildings.

TOKYO SUPERMIX is proud to be the trusted choice of leading construction firms and building consultants, not only for local projects but also for multinational collaborations that are redefining the country's landscape. On many fronts, we have been the only supplier who was able to meet some of the stringent guidelines set by the international developers behind some of the iconic projects currently being implemented.

Project	
Challenge	Residential Projects and many a domestic and commercial buildings The customer wanted a hassle-free, versatile solution that can be used for multiple concreting requirements in various parts of the house which included the casting of structural elements as well as finishing floors and bathrooms. Ability to work within the allocated budget was of paramount importance while building a house that lasts for generations.
Solution	TOKYO SUPERMIX Normal Pumpable Concrete
Features	Perfect for casting typical structural elements such as slabs and columns. Strength grades C15 to C45, with 20-150mm slump falls within this category of concrete which can be pumped up to about 5 floors of a building. Workability is moderate. Ideal for small sized commercial buildings, houses, culverts, factory floors and lower levels of taller buildings.

Our latest innovation	
Solution	TOKYO SUPERMIX Pervious Concrete
Features	This innovative zero slump concrete design enables water draining into soil through the structural porosity of concrete in applications such as car parks, walkways, pavements etc. This helps water absorption to soil and minimize impact to ground water due to paving the surface of the earth. Pedestrian / vehicle driving safety during rains and prevention of flooding of lower roads are other benefits.

CASE STUDIES



ITC Hotel Colombo



Project	ITC Hotel Colombo
Challenge	Building projects often needs their 'Basements' filled to maintain one finished level after drawing service and electrical works. Using soil for this purpose is cumbersome and time consuming. Our solution "Low Strength Light Weight Mortar" is pumpable and relieves the contractor of a lot of problem. Time consuming transfer of materials to basements and compacting etc. is totally avoided with this product at relatively a lower cost than concrete. Pumpability of Light Weight Mortar speeds up the whole activity and saves time.
Solution	TOKYO SUPERMIX Light Weight Mortar
Features	Unwashed Manufactured Sand with more fine particles and Blended Cement based mix design uses a light PCE admixture and a special air entraining agent. This combination creates the necessary pumpability, flowability and lower density. Strength is lower than for structural concrete but it serves the purpose at a lower cost than conventional filling & compaction using soil.

Project	Havelock City, Sethsiripaya 2, Orion City, Winil City Hotel
Challenge	One of the main requirements for piling work is smooth flowability, which allows the concrete to reach every corner of the bore hole, usually fixed with a steel reinforcement cage. Since piling takes a longer duration, maintaining a homogeneous mix design through the entirety of the piling phase is very important.
Solution	TOKYO SUPERMIX Piling Concrete
Features	<p>This formula is especially designed with a slump of 180mm – 220 mm making it ideally suited for in-situ bored piles, that are usually fed through 'trimy pipes' requiring extra-high flowability. Critical fresh state properties such as homogeneous mix without segregation and the first truck's slump retention up to reaching of the last truck to site are achieved by using proper aggregates and admixtures.</p> <p>Diameters of piles typically used in Sri Lanka range from 600mm to 2000mm and depths of 25m to 45m. Commonly used strength grades range from C30 to C50.</p>

CASE STUDIES



Altair



Project	Altair, Avic Astoria, Cinnamon Life, US Embassy Project, Shangri La
Challenge	Pumping concrete to high-rises require extra flowability. Therefore, the solution must carry the right blend of cementitious materials and admixtures to enable easy pumping to great heights using stationary pumps.
Solution	TOKYO SUPERMIX High Flow Concrete
Features	<p>This design is specially formulated to deliver enhanced flowability with minimum segregation, which makes it easier to pump concrete to heights exceeding 150m and flows easily through reinforcement bar matrix. Rheology characteristics are Slump 225mm and Slump Flow 450-600mm.</p> <p>Given the scale and the intensity of project timelines, the ability to supply the required bulk quantities just-in-time were key supplier evaluation criteria set by the multinational consultants overseeing this landmark project. Having the largest fleet of modern pump cars and bulk mixing trucks gave us the edge over others in meeting the customer needs.</p>

Project	Altair, New US Embassy Project
Challenge	Soil stabilizing in excavated basements was required in the US Embassy project site. Altair project needed corrections on some peripheral piles. A cost effective thin concrete layer was the required product in such situations.
Solution	TOKYO SUPERMIX Shotcrete Concrete
Features	A concrete made with only fine 0-5 mm fine aggregates and 5-14 mm chips are used in Shotcrete Concrete. The mix is sprayed on to surfaces needed stabilizing or improvement using a special pumping machine with a chemical accelerator. This accelerator is simultaneously fed with the concrete mix setting in quick hardening.

CASE STUDIES



Cinnamon Life



Project	Cinnamon Life, Avic Astoria, Twin Peak, Ministry of Labor
<p>Challenge</p>	<p>In high rise buildings, columns at the bottom most levels become significantly large due to the weight of the total structure they have to bear. This impedes space availability in lower levels, mostly used as parking bays or as prime commercial space.</p> <p>The necessity to maximize space and improve visual appeal demands the reduction of column sizes, thus calling for high-performance concrete that is robust yet versatile. This demand can only be met by ultra-high strength grades such as C70 and C85.</p>
<p>Solution</p>	<p>TOKYO SUPERMIX Ultra-High Strength Concrete</p>
<p>Features</p>	<p>To date TOKYO SUPERMIX is the only concrete in Sri Lanka to achieve both strength grades C70 and C85, and was the winning criteria in becoming the only approved supplier to this landmark project.</p> <p>The superior strength gaining characteristics of NIPPON CEMENT PRO OPC Cement is the main contributory factor along with other constituent materials in the design such as the water reducing Poly Carboxylic Ether type admixture. The modern testing machines for such grades are available only with TOKYO SUPERMIX labs and a few other places, attesting our ability to meet a very specific niche in demand.</p>

Project	New US Embassy Building Complex-Colombo
<p>Challenge</p>	<p>Decorative Concrete without any further finishing requires a high degree of uniformity in color and overall appearance. The latex formwork boards used generates a 'wood grain' finish on the concrete surface. The contractor adheres to a strict cleaning procedure on latex mould lined formwork boards to ensure consistency of the physical implements used for the project. Our challenge was to provide consistent color and texture of final architectural finish of the concrete.</p>
<p>Solution</p>	<p>TOKYO SUPERMIX Decorative Architectural Concrete</p>
<p>Features</p>	<p>Manufactured Sand and Blended Cement based mix design uses a PCE admixture. Quality assured M-Sand from Tokyo Super Aggregate was used to maintain materials consistency. The application was carried out during night hours to maintain fresh state properties very close to specified levels.</p>

CASE STUDIES



Orion City



Project	Orion City PT Slabs, Ozo Hotel, Altair, Southern Highway and OCH
Challenge	Post tensioning of slabs, precast girders, slip-form construction and in-situ bridge girder constructions requires early strength gaining property.
Solution	TOKYO SUPERMIX High Early Strength Concrete
Features	<p>This special mix design garners early strength and enables the post-tensioning process, early removal of form work, intermittent shifting of formwork etc. as the case may be.</p> <p>Cement quality and maintenance of water cement ratio plays a vital role to achieve the precise strength required to apply tension on rebars and removal of form work generally after 2 days and in the slip-form concrete to move formwork at the rate of 15-30 cm per hour. This enables minimizing of beams on slabs and reduces overall size of structural members and continual progression of concreting respectively.</p>

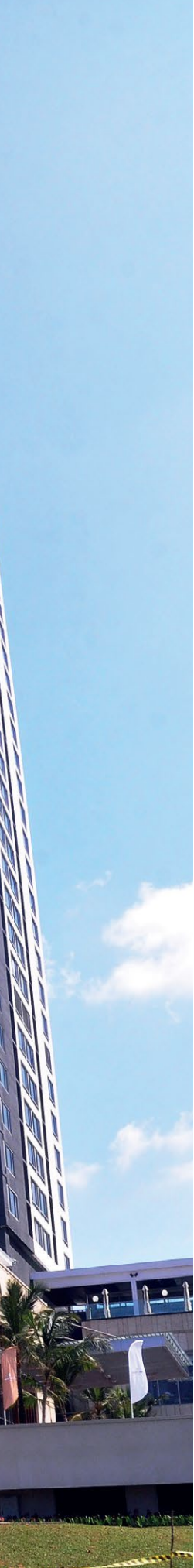
Project	Aitken Power Waste to Energy, Havelock City, US Embassy
Challenge	Durable concretes have become an integral part of structures coming up along the Colombo coast line and Colombo city in general. Durable concrete conforms to requirements like sulphate and chloride resistance and low water absorption etc., and is normally prescribed for harsh environments such as marshy or marine by the consultants.
Solution	TOKYO SUPERMIX Durable Concrete
Features	<p>The chemical and water resistance in durable concrete comes from using TOKYO SUPER PLUS or Fly Ash blending amongst the use of other ingredients such as silica fume and slag (GGBS) in the special mix designs. These designs give a denser closely packed concrete structure resistant to chloride penetration and sulphate attack.</p> <p>TOKYO SUPERMIX laboratories are equipped to carry out the required tests to certify the chemical properties, in addition to only one state university who is equipped to do these tests.</p>

Project	Cinnamon Life / Technical Building - Tokyo Cement Group
Challenge	Due to the scarcity / high cost of river sand and to enable fast construction an alternative to 'manual cement rendering' on floors was required. The skilled mason availability has also become a problem to do such finishes fast presently in projects.
Solution	TOKYO SUPERMIX Flowable / Pumpable Screed Mortar
Features	Unwashed Manufactured Sand with more fine particles and Blended Cement based mix design uses a PCE admixture. This combination creates the necessary pumpability and flowability required in this application. Flowability enables masons to lay it several times faster using longer leveling bars with the aid of pre-set levels covering larger areas in different floors of multistoried buildings.

CASE STUDIES



Shangri La Hotel



Project	Shangri La Hotel & Shangri La Towers, Cinnamon Life, Havelock City
Challenge	These specific projects sought to maintain high and/or unique aesthetic value and had inbuilt special architectural features, which required additions be made to the basic structure without the burden of added weight. Especially in mixed-development sites such as hotels and condominiums that include kitchens and swimming pools located on higher floors, special structural adjustments that are versatile and lighter are required.
Solution	TOKYO SUPERMIX Light Weight Concrete
Features	Light weight concrete is typically used to fill voids in the structures that needs filling-up to raise floor levels to achieve functional requirements. The unique technique used to achieve very low density (600 – 1200 Kg/m ³) is so far mastered only by TOKYO SUPERMIX . The proprietary foam blending technology and the process followed enables this achievement.

Project	Ministry of Labor, Orion City, AitKen Power Waste to Energy
Challenge	In structural elements such as thick raft foundations and large-sized columns, temperature of the 'core' or center need to be maintained below 72°C - 75°C depending on the consultant discretion.
Solution	TOKYO SUPERMIX Temperature controlled concrete
Features	<p>Formulation of low temperature concrete needs total temperature control of all ingredients such as fine aggregate, coarse aggregate, water and cement. Such mix designs require scientific expertise and technological insights to use the right mix of cementitious materials and admixtures, along with the mechanics to maintain ingredient temperature control.</p> <p>In addition, a range of specific ancillary equipment such as high capacity water chillers, ice crushing machines and freezer containers are necessary in achieving this precision-driven solution mixing. Equipped with state-of-the-art machinery and batching plants, TOKYO SUPERMIX has achieved temperatures as low as 26oC for some of our projects, similar to the prominent names featured above.</p>

CASE STUDIES



Avic Astoria



Project	Cold store complex of CIC – Pannala
Challenge	A key structural requirement in this context was the ability to prevent the concrete from cracking due to fluctuating extreme temperatures that occur inside a typical cold storage facility.
Solution	TOKYO SUPERMIX Freeze-Thaw Resistant Concrete
Features	Fly Ash blending and use of other special ingredients enabled creating a special concrete mix to meet varying demands of frozen and thawed cycles, and withstand sudden expansion and shrinkage resulting from water freezing.

Project	DSI Warehouse – Weligama, Load Star - Weligama
Challenge	Seamless super-flat floors need minimization of shrinkage to avoid crack formation.
Solution	TOKYO SUPERMIX Non-Shrink Concrete
Features	This mix design done with carefully selected materials and appropriate admixtures result in special properties which allow better bonding of the concrete to avoid air traps. The concrete is mixed with steel fiber reinforcement since steel bar reinforcement usage can give rise to crack formation.

Project	Avic Astoria, Cinnamon Life, US Embassy
Challenge	The matrix of reinforcement steel bars in certain structural elements necessitates extra poking of concrete during placing, which is a time and labour intensive process making a significant impact on the overall project efficiency.
Solution	TOKYO SUPERMIX Self-Compacting Concrete
Features	Self-compacting concrete, formulated using a different combination of coarse aggregates and appropriate admixtures, helps avoid high dependency on labour and reduces time taken for manual compacting of floors and slabs. This free-flowing concrete flows through the spaces in the rebar-matrix and fills up the form work without segregation. This eliminates the need for poker vibrating, whilst achieving a honeycomb free structure. Fresh state workability is measured in terms of filling ability and passing ability using V-Funnel/Slump Flow and J-Ring/L-Box apparatus respectively. Segregation resistance is also another check carried out visually during above tests.

CASE STUDIES



Fisheries Harbor - Dikkowita



Project	New US Embassy Building Complex-Colombo
Challenge	<p>The new multi-building office complex commissioned by the US Government required compliance to stringent quality standards with specific compliance to US regulatory requirements in engineering, sustainability and construction execution. The project is registered with the U.S. Green Building Council for Leadership in Energy and Environmental Design (LEED®) green building rating system and is projected to earn LEED® Silver status.</p> <p>Since it is being built in central Colombo along the seafront, special attention is paid to corrosion resistance of the building to maintain longevity of the structure.</p>
Solution	TOKYO SUPERMIX Exposed Concrete with Corrosion Inhibitors
Features	<p>This type of concrete is especially formulated for the first time for application in the New US Embassy Project. The special corrosion inhibitors are added to the durable concrete design mix, in compliance with the consultant specification to arrive at the custom-designed solution.</p>

Project	Fisheries Harbor - Dikkowita, Tokyo Cement Jetty Trincomalee
Challenge	<p>For underwater constructions, the main challenge is to prevent cement and fine particles getting washed off when water comes into contact with fresh concrete during concrete pouring process. This requires a higher level of bonding with chemical features that can withstand various water salinity levels.</p>
Solution	TOKYO SUPERMIX Underwater Concrete
Features	<p>The concrete solution, placed usually through a steel casing, is enriched with a viscosity modifying agent which gives anti-washout properties.</p>

Project	HNB Bank - Nittambuwa, Flint International Office, Church in Kandana
Challenge	<p>Adopting a decorative and colourful concrete finish, for the interior design of contemporary offices or living spaces of commercial and residential buildings is a trend. Maintenance free architectural colour finish floors can be done when slabs are poured with colour concrete.</p>
Solution	TOKYO SUPERMIX Colour Concrete
Features	<p>Colour pigment is added to the concrete and later the surface is cut and polished using diamond cutting wheels. The resulting floor finish hence does not need waxing or sealant application. It is a maintenance free floor that needs only mopping with water. Leaching free colour concrete design is done using the correct combination of cementitious materials and admixtures / colour pigments. The aggregate used by TOKYO SUPERMIX is clean and devoid of any foreign matter. Hence, an unblemished finish is obtained, when cut and polished using the right equipment.</p>

CASE STUDIES



Southern Expressway



Project	Eli House Water Tank - Modara, Havelock City, Altair
Challenge	Water proofing the structure is one of the most common requirements in any building. This need becomes a high priority for water tanks, swimming pools and basements.
Solution	TOKYO SUPERMIX Water Proof Concrete
Features	A hydrophobic ingredient is added to the blended cementitious materials to arrive at a design that maintains a very low water-cement ratio. This produces a dense and low water permeable concrete, typically used for below ground level structures and water tanks.

Project	Highway sections from new Kelani bridge (NKB)
Challenge	The Highway Sections from NKB to Ingurukade Junction and Orugodawatta Junction are constructed on a steel structure. The top deck is rested on support columns on either side. The deck bottom steel corrugated plate is covered with concrete and subsequently waterproofed before finishing with an asphalt layer. The road is given a 100 years lifetime by design. Hence 'water' and 'air' penetration from possible micro cracks / capillaries on the top deck concrete need to be prevented to avoid the corrosion of the steel bottom plate despite the protective layers of paints applied.
Solution	TOKYO SUPERMIX 'Expansive' or 'Shrinkage Compensating' Concrete
Features	A shrinkage-reducing, high-performance expansive additive is used in concrete to generate the required expansion from within the concrete to compensate for the general shrinkage taking place during concrete hardening. Thus the possibilities of micro-cracks / capillary formation is eliminated and 'water tightness' is improved to ensure 100 years lifetime.

Project	Toll Gates of Southern Expressway, US Embassy Project
Challenge	This exposed concrete required a smooth, seamless finish after the specially designed formwork is removed, while being durable and maintenance free.
Solution	TOKYO SUPERMIX Fair Finish Concrete
Features	High durability and maintenance free smooth finish are hallmarks of this particular formulation of concrete. A special mix that has high flowability and exact quantities of fine particles enables this surface finish. A superior rheology is maintained in this segregation and bleeding through controlled high slump concrete.

OUR COMMITMENT TO NATURE





We at **TOKYO SUPERMIX** make every effort to continuously seek innovative methods to reduce our environmental footprint. Our commitment towards a greener world breathes life through two initiatives;

Coral Conservation Programme:

Recycling waste **TOKYO SUPERMIX** concrete to produce Reef Balls that are placed on the ocean bed along our eastern coastline as part of the coral conservation and reef rehabilitation Programme is spearheaded by Tokyo Cement



Group in cooperation with a consortium of likeminded partners.



Water Treatment Plant:

Recycling water which takes place through our internally developed water filtration system, is a small drop in our efforts to conserve the most valuable resource on earth. Over 60 million liters of water used to

wash the bulk carriers across our 11 plants gets recycled within our internally-developed water filtration system every year.

CONTACT US



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