

ALCHEMCO CASE STUDIES LIFETIME EDITION

CASE STUDIES



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ABOUT ALCHEMCO CASE STUDIES



Waterproofing concrete structures and infrastructures is a vital part of future preservation. Alchemco Waterproofing systems create a subsurface membrane barrier that eliminate water absorption in concrete. By creating this barrier, elemental and chemical hazards can be avoided; creating a healthier environment and extending the design life of the structure by preventing degradation of the concrete. Waterproofing does not add carbon footprints and reduces the costs for repairs and maintenance. Alchemco products are certified eco-friendly and VOC free, minimizing environmental threats to our communities.



CASE STUDY

TECHCRETE 2500 WATERPROOFING SYSTEM WAS SELECTED TO WATERPROOF AND PROTECT UNDERGROUND TANKS AT BRIGHT FARM, DEMONSTRATING ITS EFFICACY IN CHALLENGING ENVIRONMENTAL CONDITIONS. APPLIED TO THE TANKS' SURFACES, INCLUDING BOTH VERTICAL WALLS AND HORIZONTAL FLOORS, TECHCRETE 2500 FORMED A DURABLE, MOISTURE-RESISTANT BARRIER. ITS ADVANCED FORMULATION ENSURES LONG-LASTING PROTECTION AGAINST WATER INFILTRATION, SAFEGUARDING THE INTEGRITY OF THE TANKS AND PREVENTING POTENTIAL LEAKS. THIS SOLUTION NOT ONLY MEETS STRINGENT WATERPROOFING REQUIREMENTS BUT ALSO ENHANCES THE STRUCTURAL LONGEVITY OF THE TANKS, MAKING TECHCRETE 2500 A RELIABLE CHOICE FOR ENSURING OPERATIONAL RELIABILITY AND ENVIRONMENTAL SAFETY AT BRIGHT FARM.

BRIGHT FARMS

LOCATION

MACON, GA

APPLICATION DATE

2024

PROJECT TYPE

UNDERGROUND TANKS

COVERAGE AREA

18,500 SQFT

STATUS

NO LEAKS REPORTED



CASE STUDY

TECHCRETE 2500 WATERPROOFING SYSTEM WAS APPLIED AT A WASTEWATER TREATMENT PLANT TO EFFECTIVELY WATERPROOF AND PROTECT A PIT AREA. THIS VERSATILE PRODUCT WAS USED VERTICALLY ON THE WALLS AND HORIZONTALLY ON THE PIT FLOOR, ENSURING COMPREHENSIVE COVERAGE. IN ADDITION TO ITS STANDARD APPLICATION, CAULKING AND AN ACCELERATING AGENT WERE INCORPORATED TO ENHANCE PERFORMANCE AND EXPEDITE THE WATERPROOFING PROCESS. THE SOLUTION NOT ONLY PROVIDED A ROBUST BARRIER AGAINST MOISTURE BUT ALSO OFFERED DURABILITY AND RESILIENCE IN THE CHALLENGING ENVIRONMENT OF THE WASTEWATER TREATMENT FACILITY. OVERALL, TECHCRETE 2500 PROVED INSTRUMENTAL IN SECURING LONG-TERM PROTECTION AND OPERATIONAL EFFICIENCY FOR THE PIT AREA.

WWTP CLARIFIER, SOLAR, AND SCREEN

LOCATION

PORTAGE, IN

APPLICATION DATE

MAY 2024

PROJECT TYPE

WASTEWATER TREATMENT PLANT

COVERAGE AREA

28,800

STATUS

NO LEAKS REPORTED



CASE STUDY

TECHCRETE 2500, A HIGH-PERFORMANCE WATERPROOFING PRODUCT, WAS RECENTLY USED TO SEAL A CONCRETE WATER TANK ON SOUTH BELL STREET. KNOWN FOR ITS ABILITY TO DEEPLY PENETRATE CONCRETE AND CREATE A DURABLE WATER BARRIER, TECHCRETE 2500 WAS APPLIED AFTER THOROUGH SURFACE PREPARATION. THIS APPLICATION ENSURES THE TANK'S LONG-TERM WATER TIGHTNESS AND STRUCTURAL INTEGRITY, ESSENTIAL FOR RELIABLE WATER STORAGE AND DISTRIBUTION INFRASTRUCTURE.

SOUTH BELL STREET

LOCATION

ARLINGTON, VA

APPLICATION DATE

2024

PROJECT TYPE

CONCRETE TANK

COVERAGE AREA

11,000 SQFT

STATUS

NO LEAKS REPORTED



CASE STUDY

WATER TANK IN PORTUGAL CHOSE TO PROTECT AND WATERPROOF CONCRETE TANKS WITH TECHCRETE 2500 TO ENSURE SAFETY, DURABILITY AND PREVENT EARLY DAMAGE.

WATER TANK

LOCATION

PORTUGAL

APPLICATION DATE

2024

PROJECT TYPE

WATER TANK

COVERAGE AREA

110,000 SQFT

STATUS

NO LEAKS REPORTED



CASE STUDY

THE HOTEL PROJECT NEEDED A DURABLE SOLUTION FOR ITS DAMAGED FLAT CONCRETE ROOF, EXPOSED TO HARSH WEATHER AND SALT AIR. THE GOAL WAS TO SEAL EXISTING CRACKS, PREVENT NEW ONES, AND EXTEND THE ROOF'S LIFESPAN. UNLIKE TRADITIONAL SYSTEMS VULNERABLE TO HURRICANES, TECHCRETE 2500 WATERPROOFING SYSTEM INTEGRATES INTO THE CONCRETE, PROVIDING LONG-TERM PROTECTION AND WITHSTANDING HIGH WINDS. CHOSEN FOR ITS DECADES-LONG DURABILITY AND SUITABILITY FOR OCCUPIED SPACES, TECHCRETE 2500 EFFECTIVELY MET THE PROJECT'S REQUIREMENTS.

MIMOSA HOTEL ROOF

LOCATION

- MIAMI BEACH, FLORIDA

APPLICATION DATE

2023

PROJECT TYPE

EXISTING CONSTRUCTION /
ROOFTOP / HOTEL

COVERAGE AREA

4,400 SQ. FT.

STATUS

NO LEAKS REPORTED



CASE STUDY

TECHCRETE 2500 WATERPROOFING SYSTEM WAS APPLIED TO THE UNLV EXISTING PARKING STRUCTURE IN 2023. THE 22,600 SQ. FT. PROJECT WAS COMPLETED WITH VERY LITTLE MANPOWER AND IN A VERY SHORT TIME TO DRAMATICALLY INCREASE THE USABLE LIFE SPAN OF THE PARKING STRUCTURE.

UNIVERSITY OF LAS VEGAS

LOCATION

LAS VEGAS, NV, USA

APPLICATION DATE

NOVEMBER 2023

PROJECT TYPE

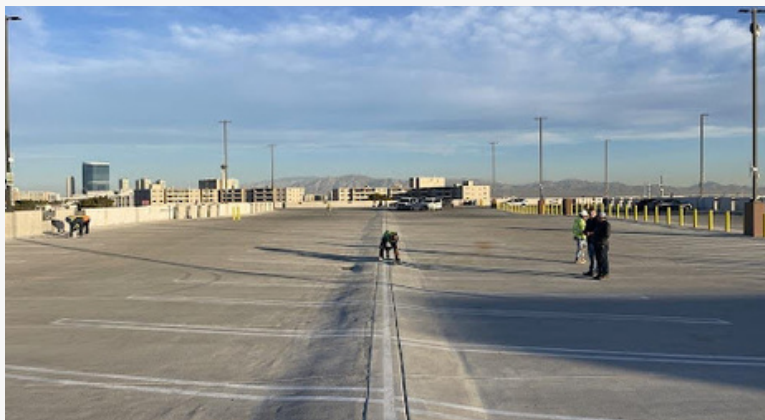
PARKING STRUCTURE

COVERAGE AREA

22,000 SQFT

STATUS

NO LEAKS REPORTED





CASE STUDY

NEWLY CONSTRUCTED ATLANTA SCHOOL ETHOS CLASSICAL EDITION NEEDED A SOLUTION FOR BELOW-GRADE VERTICAL APPLICATION WATERPROOFING IN THEIR CONCRETE DESIGNED CLASSROOMS. TECHCRETE 2500 WATERTITE SYSTEM WAS APPLIED USING DURATITE MLASTIC AND ACR POLYSEAL SEALANT S+.

ETHOS CLASSICAL EDITION

LOCATION

ATLANTA, GA, USA

APPLICATION DATE

2023

PROJECT TYPE

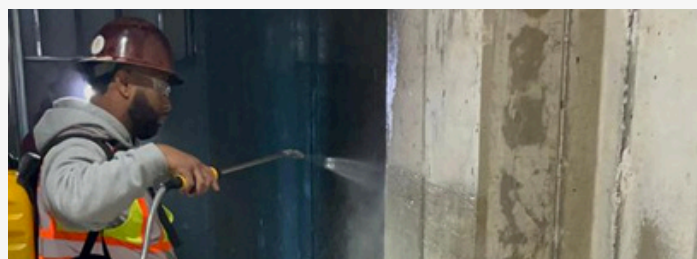
VERTICAL BELOW-GRADE

COVERAGE AREA

2,500+ SQFT

STATUS

NEW CONSTR





CASE STUDY

NEWLY CONSTRUCTED FILMING STUDIO WITH 45,000SQFT OF STORM WATER HOLDING & FOUNTAIN AREAS WERE PROTECTED WITH TECHCRETE 2500 WATERPROOFING SYSTEM. THIS SYSTEM ALSO FEATURED A KEY ACCESSORY: DURATITE MLASTIC.

ASSEMBLY YARDS

LOCATION

ATLANTA, GA, USA

APPLICATION DATE

2023

PROJECT TYPE

FOUNTAINS & STORM WATER
HOLDING

COVERAGE AREA

45,000+ SQFT

STATUS

NEW CONSTRUCTION





CASE STUDY

TECHCRETE 2500 WATERPROOFING SYSTEM WAS SPRAY APPLIED TO THE PARKING DECK OVER THE ELECTRICAL ROOM TO PREVENT DAMAGING THE ELECTRICAL EQUIPMENT BELOW. ACR CRACK AND VOID WAS USED AS A PART OF THE SYSTEM.

PENN PRESBYTERIAN MEDICAL

LOCATION

PHILADELPHIA, PA, USA

APPLICATION DATE

JULY 2023

PROJECT TYPE

PARKING STRUCTURE

COVERAGE AREA

3,600 SQFT

STATUS

NO LEAKS REPORTED





CASE STUDY

EXISTING PARKING STRUCTURE FACING LEAKS AND DETERIORATION. CLEANED AND PREPPED WITH ALCHEMCO ACR LINE AND FOLLOWED WITH APPLICATION OF TECHCRETE 2500 WATERPROOFING SYSTEM FOR A WATERTIGHT SOLUTION. CERAMIC GRANULES WERE ALSO APPLIED TO FOOT TRAFFIC AREAS

ARBORETUM PLAZA

LOCATION

AUSTIN, TX, USA

APPLICATION DATE

2023

PROJECT TYPE

PARKING STRUCTURE

COVERAGE AREA

60,000 SQFT

STATUS

NO LEAKS REPORTED





CASE STUDY

THIS HOSPITAL HAS AN EXPOSED 21,000 SQ. FT. STREET-LEVEL PARKING AREA WITH AN UNDERGROUND PARKING STRUCTURE DIRECTLY BELOW IT. DUE TO WEATHERING AND DETERIORATION, THIS TOP LEVEL OF THE PARKING STRUCTURE WAS LEAKING INTO THE LEVEL BELOW.

UPMC MAGEE - WOMENS HOSPITAL

LOCATION

PITTSBURGH, PA, USA

APPLICATION DATE

2023

PROJECT TYPE

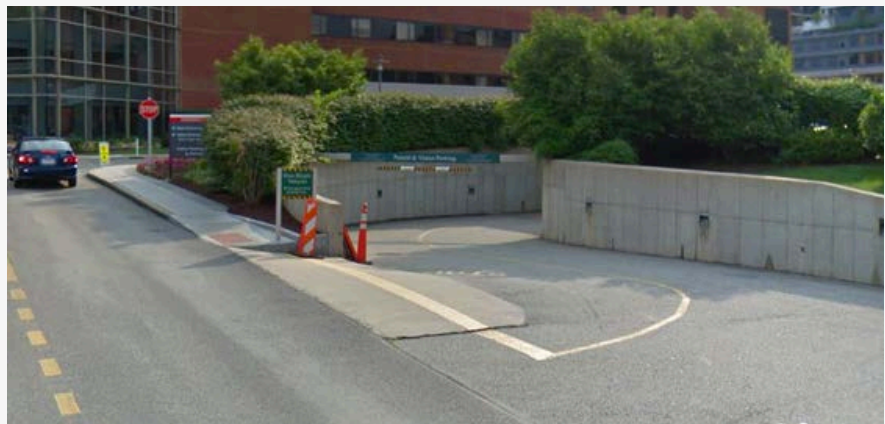
PARKING STRUCTURE

COVERAGE AREA

21,000 SQFT

STATUS

NO LEAKS REPORTED





CASE STUDY

THE MAIN CHALLENGE WAS WATERPROOFING AND PROTECTING WEATHERED, CRACKED, AND LEAKING BALCONIES AND A POOL DECK. CONVENTIONAL SOLUTIONS LIKE POLYURETHANE OR SILANE-BASED SEALERS DID NOT OFFER LONG-TERM PROTECTION. THE TECHCRETE 2500 WATERPROOFING SYSTEM WAS SELECTED FOR ITS PROMISE OF DECADES-LONG DURABILITY. ITS EMSS TECHNOLOGY FORMS A LASTING WATERPROOF MEMBRANE BY REACTING WITH THE CONCRETE'S CALCIUM. CONSEQUENTLY, THE PROJECT PROCEEDED SMOOTHLY, ENSURING THE LUXURY APARTMENT COMPLEX BENEFITS FROM SUPERIOR WATERPROOFING AND EXTENDED LIFESPAN.

THE VISTAS

LOCATION

PALMETTO BAY, FLORIDA

APPLICATION DATE

SPRING 2023

PROJECT TYPE

RESIDENTIAL / BALCONIES / POOL
DECK / EXISTING CONSTRUCTION

COVERAGE AREA

UNKNOWN

STATUS

NO LEAKS REPORTED



CASE STUDY

THE MAIN CHALLENGE WAS WATERPROOFING AND PROTECTING WEATHERED, CRACKED, AND LEAKING BALCONIES. TRADITIONAL SOLUTIONS LIKE LIQUID POLYURETHANE OR SILANE-BASED SEALERS WERE INADEQUATE, REQUIRING FREQUENT REPLACEMENT. THE SPECIFIER AND OWNER CHOSE TECHCRETE 2500 WATERPROOFING SYSTEM FOR ITS DECADES-LONG PROTECTION WITH INNOVATIVE EMSS TECHNOLOGY. THE PROJECT WAS COMPLETED ON SCHEDULE, PROVIDING THE BALCONIES WITH SUPERIOR WATERPROOFING AND SIGNIFICANTLY EXTENDING THEIR LIFESPAN.

MIDTOWN DORAL CONDOMINIUMS

LOCATION

DORAL, FLORIDA

APPLICATION DATE

SPRING 2023

PROJECT TYPE

RESIDENTIAL / BALCONIES /
EXISTING CONSTRUCTION

COVERAGE AREA

22,000 SQ. FT.

STATUS

NO LEAKS REPORTED



CASE STUDY



BUILT IN 2008, THIS AIRPORT WAS FACING SEVERE CRACKING AND DETERIORATION IN ITS CONCRETE SLAB. CLOSING DOWN THIS HIGHLY TRAFFICKED AREA TO MAKE REPAIRS AND OPEN BACK UP TRAFFIC WAS NOT A CHALLENGE FOR THE TECHCRETE 2500 SYSTEM.

INDIANAPOLIS AIRPORT

LOCATION

INDIANAPOLIS, IN, USA

APPLICATION DATE

PHASE 1 2023

PHASE 2 2024

PROJECT TYPE

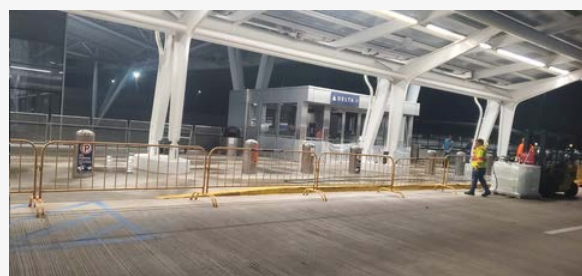
AIRPORT INFRASTRUCTURE

COVERAGE AREA

80,000 SQFT

STATUS

NO LEAKS REPORTED





CASE STUDY

BRIDGEDECK WATERPROOFING SYSTEM WAS SPECIFIED TO PROTECT THIS BRIDGE ON INTERSTATE 20. THE INTERSTATE WHICH WAS CONSTRUCTED IN 1957 NEEDED PROTECTION AGAINST ENVIRONMENTAL AND CHEMICAL ELEMENTS TO PREVENT INGRESS OF CLORIDE IONS AND CORROSION.

RED RIVER DECK

LOCATION

BOSSIER CITY, LA, USA

APPLICATION DATE

2023

PROJECT TYPE

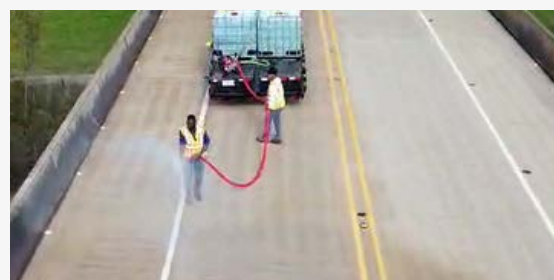
INFRASTRUCTURE

COVERAGE AREA

123,000 SQFT

STATUS

NO LEAKS REPORTED





CASE STUDY

RESIDENTIAL NEW CONSTRUCTION POUR. TECHCRETE 2500 WATERPROOFING SYSTEM WAS USED TO CREATE A WATERTIGHT BARRIER FOR OUTDOOR PARKING, INDOOR PARKING AND A PERSONAL BOWLING ALLEY DIRECTLY UNDERNEATH THE PARKING STRUCTURE.

HOME WITH BOWLING ALLEY

LOCATION

UTAH, USA

APPLICATION DATE

2023

PROJECT TYPE

RESIDENTIAL

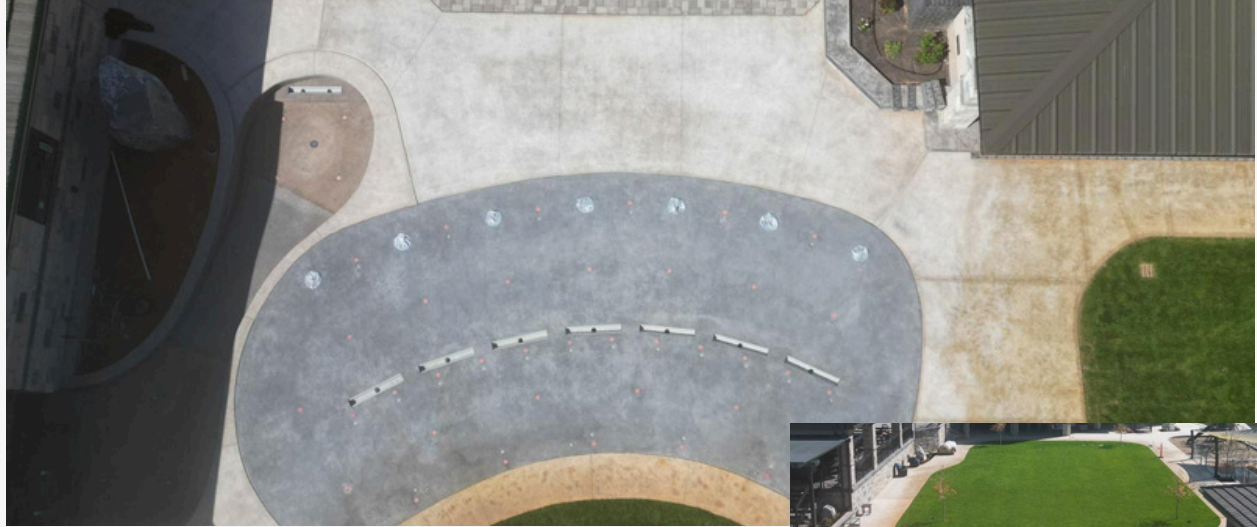
COVERAGE AREA

5,000 SQFT

STATUS

NEW CONSTRUCTION





CASE STUDY

RESIDENTIAL WATER FOUNTAIN WAS GIVEN A WATERTIGHT SOLUTION WITH TECHCRETE 2500. THIS SYSTEM WAS IDEAL TO USE NEXT TO THE PUTTING GREEN TO PROTECT FROM HARMFUL CHEMICALS THAT WOULD POTENTIALLY STAIN OR DESTROY THE AREA.

RESIDENTIAL HOMESCAPE

LOCATION
ARIZONA, USA

APPLICATION DATE
2023

PROJECT TYPE
RESIDENTIAL

COVERAGE AREA
2,500 SQFT

STATUS
NO LEAKS REPORTED





CASE STUDY

NEW CONSTRUCTION RETAINING WALL INSTALLATION APPLICATION. COMPLETED SEPTEMBER 2023, TECHCRETE 2500 SYSTEM USED INCLUDING DURATITE FOUNDATION, DURATITE MLASTIC, AND ACR POLYSEAL SEALANT S+.

CMU BLOCK - RETAINING WALL

LOCATION

DORAL FL, USA

APPLICATION DATE

2023

PROJECT TYPE

RETAINING WALL

COVERAGE AREA

2,000SQFT

STATUS

NEW CONSTRUCTION INSTALL





CASE STUDY

COMMERCIAL RETAIL PARKING LOT WITH BELOW GROUND PARKING WAS EXPERIENCING SIGNIFICANT LEAKING DUE TO CLIMATE AND LOAD BEARING. FIVE PHASES WERE COMPLETE WITH TECHCRETE WATERPROOFING SYSTEM INCLUDING CRACK AND VOID APPLICATION. A RILEM TEST WAS PERFORMED IN TWO TREATED AREAS WHERE IT SHOWED NO ABSORPTION OF WATER.

PENN QUARTER GARAGE

LOCATION

WASHINGTON, DC

APPLICATION DATE

2023

PROJECT TYPE

PARKING GARAGE, EXISTING
CONSTRUCTION

COVERAGE AREA

26,000 SQ. FT.

STATUS

NO LEAKS REPORTED



CASE STUDY

THE MCCUTCHEON HALL PARKING STRUCTURE AT PURDUE UNIVERSITY, EXPANDED IN 2005 TO 300,000 SQ. FT., NEEDED LONG-TERM PROTECTION. PURDUE HAD PREVIOUSLY USED TECHCRETE WATERPROOFING SYSTEMS WITH SUCCESS, LEADING THEM TO CHOOSE TECHCRETE 2500 FOR THE TOP LEVEL AND CRETEPRO ULTRA FOR THE LOWER LEVELS. TECHCRETE 2500, WITH ITS 20-YEAR WARRANTY, PROVIDES DURABLE SUBSURFACE PROTECTION, WHILE CRETEPRO ULTRA OFFERS 10 YEARS OF PROTECTION BEFORE REAPPLICATION. THE PROJECT WAS COMPLETED SWIFTLY BY BROWNING CHAPMAN, FINISHING BEFORE THE NEW SCHOOL YEAR, DEMONSTRATING THE EFFICIENCY AND EFFECTIVENESS OF ALCHEMCO'S SYSTEMS.

MCCUTCHEON HALL PARKING STRUCTURE

LOCATION

WEST LAFAYETTE, IN

APPLICATION DATE

2023

PROJECT TYPE

PARKING STRUCTURES /
UNIVERSITIES / EXISTING
STRUCTURES

COVERAGE AREA

300,000 SQ. FT.

STATUS

NEW CONSTRUCTION INSTALL



CASE STUDY

THE CHALLENGE FOR THIS PROJECT WAS TO PREVENT GROUNDWATER PENETRATION THROUGH THE EXISTING BELOW-GRADE WALLS. WATER WAS ENTERING THE INTERIOR OF THE BUILDING DUE TO FAULTY/DEFECTIVE WATERPROOFING THAT HAD BEEN INSTALLED ON THE EXTERIOR OF THE WALL WHEN IT WAS CONSTRUCTED.

CLUB SPACE

LOCATION
MIAMI FL, USA

APPLICATION DATE
JULY 2023

PROJECT TYPE
BELOW GRADE WALL

COVERAGE AREA
3,000SQFT

STATUS
NO LEAKS REPORTED





CASE STUDY

THE NEW TERMINAL BUILDING AT TULUM INTERNATIONAL AIRPORT WAS IN NEED OF LONG-TERM ROOF PROTECTION FROM HAZARDOUS TROPICAL WEATHER AND ENVIRONMENTAL ELEMENTS THAT MAY IMPACT THE ROOF. ALCHEMCO WAS ABLE TO PROVIDE A DECADE LONG WATERPROOFING SOLUTION FOR THIS NEW ROOF.

TULUM INTERNATIONAL AIRPORT

LOCATION

TULUM, MEXICO

APPLICATION DATE

2023

PROJECT TYPE

NEW TERMINAL

COVERAGE AREA

236,800 SQFT

STATUS

NO LEAKS REPORTED





CASE STUDY

THE TREN MAYA PROJECT (MAYAN TRAIN) CONSISTS OF APPROXIMATELY 950-MILES OF NEW RAILROAD BEING BUILT ALONG THE COAST AND THROUGH THE TROPICAL RAINFOREST OF THE YUCATAN PENINSULA IN MEXICO. IT IS THE COUNTRY'S LARGEST INFRASTRUCTURE PROJECT, AND TECHCRETE 2500 WAS APPROVED TO PROTECT IT BY THE MEXICAN GOVERNMENT.

TREN MAYA

LOCATION

YUCATAN PENINSULA, MEXICO

APPLICATION DATE

2023

PROJECT TYPE

NEW RAILROAD

COVERAGE AREA

8,000,000 + SQFT

STATUS

NO LEAKS REPORTED





CASE STUDY

TECHCRETE 2500 WATERPROOFING SYSTEM PROVIDES ITD WITH TRUE WATERPROOFING PROTECTION THAT WILL PREVENT DAMAGE TO THEIR BRIDGES FOR DECADES TO COME. THE SUB-SURFACE WATERPROOFING GEL FILLS ALL OF THE EXISTING CRACKS IN THE CONCRETE SURFACE AS WELL AS SEALING FUTURE CRACKS.

IDAHO HIGHWAY BRIDGE

LOCATION

BLACKFOOT, ID, USA

APPLICATION DATE

2023

PROJECT TYPE

INFRASTRUCTURE

COVERAGE AREA

17,100 SQFT

STATUS

NO LEAKS REPORTED





CASE STUDY

THE MAIN CHALLENGE ON THIS PROJECT WAS HOW TO MOST EFFECTIVELY WATERPROOF AND PROTECT THE CONCRETE ON THE BOARDING PLATFORM WHICH WAS EXPERIENCING WEATHERING, CRACKING AND LEAKING ISSUES. PENNDOT - WHO OWNS AND MANAGES THE FACILITY WAS INTERESTED IN FINDING A LONG- TERM PROTECTION SOLUTION THAT WOULD SUBSTANTIALLY EXTEND THE USEABLE LIFE OF THE STRUCTURE.

AMTRAK STATION PLATFORM

LOCATION

MIDDLETON, PENNSYLVANIA

APPLICATION DATE

2023

PROJECT TYPE

EXISTING CONSTRUCTION / TRAIN
PLATFORM /PENNDOT

COVERAGE AREA

26,000 SQ. FT.

STATUS

NO LEAKS REPORTED



CASE STUDY

NEW EXTENSION OF GEORGIA HWY 92, APPROXIMATELY 10,000 SQFT, WAS USED AS A TEST BRIDGE OVER LICK LOG CREEK. THIS CREEK IS A TRIBUTARY TO THE CHATTOOGA RIVER IN GEORGIA AND IS A VITAL ASSET TO THE PROTECTED CRAYFISH. BRIDGEDECK'S ECOFRIENDLY CERTIFIED SYSTEM WAS THE PERFECT MATCH TO ENSURE PRESERVATION OF THE BRIDGE AND SAFETY OF THE LOCAL CONSERVATION REQUIREMENTS.

GA DOT BRIDGE

LOCATION

COLUMBUS, GA, USA

APPLICATION DATE

DECEMBER 2023

PROJECT TYPE

INFRASTRUCTURE

COVERAGE AREA

10,000 SQFT

STATUS

NEW CONSTRUCTION





CASE STUDY

COMMERCIAL RETAIL PARKING LOT WITH BELOW GROUND PARKING WAS EXPERIENCING SIGNIFICANT LEAKING DUE TO CLIMATE AND LOAD BEARING. FIVE PHASES WERE COMPLETE WITH TECHCRETE WATERPROOFING SYSTEM INCLUDING CRACK AND VOID APPLICATION. A RILEM TEST WAS PERFORMED IN TWO TREATED AREAS WHERE IT SHOWED NO ABSORPTION OF WATER.

DISTRICT AT HOWELL MILL

LOCATION

ATLANTA, GA, USA

APPLICATION DATE

2023

PROJECT TYPE

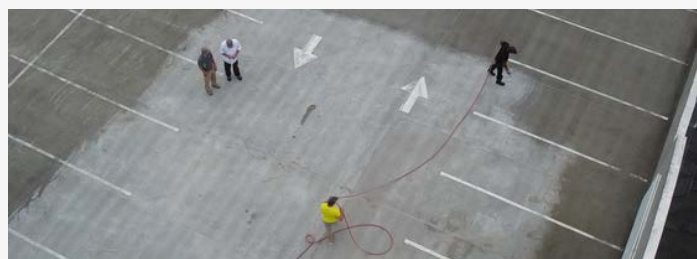
PARKING STRUCTURE

COVERAGE AREA

200,000+ SQFT

STATUS

RILEM TEST PASSED





CASE STUDY

THE APPLICATION WENT VERY SMOOTHLY, CONSIDERING THE RESTRICTIONS THAT THE APPLICATORS WERE WORKING UNDER. THESE INCLUDED LIMITED ACCESS TO PORTIONS OF THE BUILDING FOR SECURITY REASONS, COMBINED WITH WORKING AT TIMES 80' ABOVE THE GROUND.

MONTGOMERY COUNTY JAIL

LOCATION

CLARKSVILLE, TN, USA

APPLICATION DATE

2022

PROJECT TYPE

VERTICAL, MASONRY

COVERAGE AREA

57,000 SQFT

STATUS

NO LEAKS REPORTED





CASE STUDY

FOR THE LUXURY HOTEL PROJECT OPENING IN 2024, WATERPROOFING ACROSS POOLS, ROOFS, PLANTERS, AND BATHROOMS NEEDED TO MEET STRICT TIMELINES DUE TO PHASED CONSTRUCTION. DESPITE COMPETING OPTIONS FROM PENTENS AND PENETRON, TECHCRETE 2500 WAS CHOSEN FOR ITS EMSS TECHNOLOGY, WHICH FORMS A LONG-LASTING WATERPROOF GEL WITHIN THE CONCRETE. THIS SYSTEM PROVIDED EFFECTIVE WATERPROOFING AND RAPID APPLICATION, ENSURING THE PROJECT STAYED ON SCHEDULE AND GUARANTEEING DECADES OF SUPERIOR PERFORMANCE.

WALDORF ASTORIA

LOCATION

KUALA LUMPUR, MALAYSIA

APPLICATION DATE

2022 - 2024

PROJECT TYPE

RESIDENTIAL / ROOFTOPS / POOLS / PLANTERS /
FOUNTAINS / NEW CONSTRUCTION

COVERAGE AREA

UNKNOWN

STATUS

NO LEAKS REPORTED



CASE STUDY

HAMILTON ON THE BAY, A FRESH RENOVATION OVERLOOKING BISCAYNE BAY IN MIAMI FLORIDA HAD OVER 60,000SQFT OF PLANTERS, FOUNTAINS, AND PONDS ON THE INTERIOR AND EXTERIOR. TECHCRETE WAS USED ON ALL 60,000SQFT OF THESE AREAS AND NO LEAKS HAVE BEEN REPORTED.

HAMILTON ON THE BAY

LOCATION

MIAMI, FL, USA

APPLICATION DATE

FEBURARY 2022

PROJECT TYPE

PLANTERS, FOUNTAINS, PONDS

COVERAGE AREA

60,000SQFT

STATUS

NO LEAKS REPORTED





CASE STUDY

TECHCRETE 2500 WATERPROOFING SYSTEM WAS APPLIED TO THE PRECAST TUNNEL, AS WELL AS THE CONCRETE RETAINING WALL. BY SELECTING THIS SYSTEM, THE STADIUM ENSURED DECADES OF PROTECTION.

CSU FOOTBALL STADIUM

LOCATION

FORT COLLINS, CO, USA

APPLICATION DATE

2022

PROJECT TYPE

STADIUM

COVERAGE AREA

25,000+ SQFT

STATUS

NO LEAKS REPORTED





CASE STUDY

THIS COMMERCIAL OFFICE BUILDING IN THE HEART OF SOUTH BEACH HAS A MULTI-LEVEL PARKING STRUCTURE INTEGRATED DIRECTLY INTO THE BUILDING. DUE TO THE CLOSE PROXIMITY OF THIS BUILDING TO THE ATLANTIC OCEAN, AND THE EFFECTS OF CONTINUOUSLY BEING EXPOSED TO SALT AIR (AND HURRICANES), THE PARKING STRUCTURE WAS IN NEED OF REPAIRS & WATERPROOFING PROTECTION. THE OWNER WAS INTERESTED IN REPAIRING AND WATERPROOFING THE TOP LEVEL OF THIS INTEGRAL PARKING GARAGE, WHILE GETTING THE BEST VALUE FOR HIS MONEY.

555 WASHINGTON AVENUE

LOCATION

MIAMI BEACH, FL

APPLICATION DATE

OCTOBER 2022

PROJECT TYPE

PARKING STRUCTURE / COMMERCIAL /
EXISTING CONSTRUCTION

COVERAGE AREA

17,000 SQ. FT.

STATUS

NO LEAKS REPORTED



CASE STUDY

TECHCRETE 2500 WAS SPECIFIED TO PROVIDE DECADES-LONG PROTECTION THAT WOULD ENSURE COMPLETE LACK OF ODOR, TECHCRETE 2500 GAVE A COST-EFFECTIVE, EXTREMELY FAST, AND EASY APPLICATION. IT WAS EXACTLY THE SOLUTION THE OWNERS WERE LOOKING FOR.

BROWARD HEALTH MEDICAL CENTER

LOCATION

FT LAUDERDALE, FL, USA

APPLICATION DATE

DECEMBER 2022

PROJECT TYPE

MECHANICAL CHASE

COVERAGE AREA

185,000+ SQFT

STATUS

NO LEAKS REPORTED





CASE STUDY

WITH THE PROJECT BEHIND SCHEDULE, A SWIFT AND EFFICIENT WATERPROOFING SOLUTION IS IMPERATIVE TO EXPEDITE CONSTRUCTION PROGRESS. THE WATERPROOFING SYSTEM MUST COVER ALL PROJECT FACETS, INCLUDING POOLS, ROOFS, CAR PARKS, AND BATHROOMS, AMONG OTHERS. DESPITE CONSIDERING OPTIONS FROM PENTENS AND PENETRON, THE TECHCRETE 2500 WATERPROOFING SYSTEM WAS CHOSEN FOR ITS ABILITY TO SWIFTLY FORM A WATERPROOFING GEL WITHIN THE CONCRETE MATRIX, PROVIDING LONG-TERM PROTECTION WITHOUT THE NEED FOR EXTENSIVE CURING TIMES. ALIGNED WITH WORLD'S ENVIRONMENTAL PRINCIPLES, THE SYSTEM'S VOC-FREE AND POTABLE WATER CERTIFICATION FURTHER SOLIDIFIED ITS SELECTION AS THE IDEAL SOLUTION FOR THIS AMBITIOUS PROJECT.

HANA ECO ARDENCE

LOCATION

KUALA LUMPUR, MALAYSIA

APPLICATION DATE

2022 - 2024

PROJECT TYPE

RESIDENTIAL / ROOFTOPS / POOLS /
PLANTERS / NEW CONSTRUCTION

COVERAGE AREA

UNKNOWN

STATUS

NO LEAKS REPORTED



CASE STUDY

ECO SANCTUARY, DEVELOPED BY ECO WORLD DEVELOPMENT GROUP BHD, INCLUDES BUDGET-FRIENDLY HIGH-RISE PROJECTS LIKE SE.RUANG D' ECO SANCTUARY AND HUNI D' ECO ARDENCE, FEATURING 32-STORY TOWERS WITH SERVICED APARTMENTS. THE WATERPROOFING FOR THIS MULTI-YEAR PHASE WAS CRITICAL TO PROTECT ROOFS, POOLS, PARKING STRUCTURES, AND BATHROOMS, ENSURING THE PROJECT STAYED ON SCHEDULE. TECHCRETE 2500 WAS CHOSEN OVER PENTENS AND PENETRON FOR ITS LONG-TERM PROTECTION AND RAPID APPLICATION, THANKS TO ITS EMSS SUBSURFACE TECHNOLOGY, ALIGNING WITH PROJECT DEADLINES EFFECTIVELY.

HUNI D'ECO ARDENCE

LOCATION

KUALA LUMPUR, MALAYSIA

APPLICATION DATE

2022 - 2024

PROJECT TYPE

RESIDENTIAL / ROOFTOPS / POOLS /
PARKING STRUCTURE / NEW CONSTRUCTION

COVERAGE AREA

UNKNOWN

STATUS

NO LEAKS REPORTED



CASE STUDY

THE EXISTING CONCRETE BRINE TANK AT PURDUE UNIVERSITY HAD DETERIORATED TO THE POINT THAT THE UNIVERSITY ENGAGED A STRUCTURAL ENGINEERING COMPANY TO EVALUATE THE CONDITION. TECHCRETE WAS SPECIFIED THEN APPLIED ON THIS PROJECT TO PROVIDE A LONG-TERM WATERPROOFING SOLUTION.

PURDUE UNIVERSITY - BRINE TANK

LOCATION

WEST LAFAYETTE, IN, USA

APPLICATION DATE

APRIL 2022

PROJECT TYPE

WATER TANK

COVERAGE AREA

1,200 SQFT

STATUS

NO LEAKS REPORTED





CASE STUDY

WATER STORAGE TANKS BUILT IN 1957, WITH DOMED ROOFS MADE OF STRUCTURAL CONCRETE WHICH STORE A COMBINED TOTAL OF 6 MILLION GALLONS OF POTABLE WATER. OVER THE YEARS, THE CONCRETE TANKS HAD DETERIORATED TO THE POINT WHERE SEVERAL HUNDREDS OF THOUSANDS OF DOLLARS OF REPAIRS WERE REQUIRED. ONCE THE REHABILITATION WORK WAS COMPLETED, TECHCRETE SYSTEM WAS THE IDEAL WATERPROOFING SOLUTION.

LEE HEIGHTS RESERVOIR TANKS

LOCATION

ARLINGTON, VA, USA

APPLICATION DATE

2021

PROJECT TYPE

TANKS 1 & 2 REHABILITATION

COVERAGE AREA

14,400SQFT

STATUS

NO LEAKS REPORTED





CASE STUDY

THIS MARINE PORT REQUIRED WATERPROOFING PROTECTION WITH TECHCRETE 2500 ON ITS CONCRETE SLAB. THIS SLAB IS A FERTILIZER DEPOSIT AREA AND IS EXPOSED TO MANY ENVIRONMENTAL ELEMENTS AND CHEMICALS. TECHCRETE WATERPROOFING SYSTEM WAS USED TO EXTEND ITS SERVICE LIFE AND REDUCE FUTURE MAINTENANCE COSTS.

FERTILIZER PORT WAREHOUSE

LOCATION

RIO DE JANEIRO, BRAZIL

APPLICATION DATE

2021

PROJECT TYPE

WAREHOUSE

COVERAGE AREA

700 SQM

STATUS

NO LEAKS REPORTED





CASE STUDY

ECO SANCTUARY, A LARGE ECO-THEMED TOWNSHIP BY ECO WORLD DEVELOPMENT GROUP BHD, NEEDED EFFECTIVE WATERPROOFING FOR ITS NEW EDEN BY THE PARQUE RESIDENCES PHASE. WITH VARIOUS COMPONENTS LIKE ROOFS, POOLS, CONCRETE STRUCTURES, AND PLANTERS, TIMELY APPLICATION WAS CRUCIAL TO STAY ON SCHEDULE. DESPITE CONSIDERING COMPETITORS LIKE PENTENS AND PENETRON, TECHCRETE 2500 WATERPROOFING SYSTEM WAS CHOSEN FOR ITS LONG-TERM PROTECTION AND RAPID APPLICATION. THIS SOLUTION ENSURED DECADES OF WATERPROOFING WHILE KEEPING THE PROJECT ON TRACK FOR TIMELY COMPLETION.

ECO WORLD ECO SANCTUARY

LOCATION

KUALA LUMPUR, MALAYSIA

APPLICATION DATE

2021 - 2023

PROJECT TYPE

RESIDENTIAL / ROOFTOPS / POOLS /
PLANTERS / NEW CONSTRUCTI

COVERAGE AREA

UNKNOWN

STATUS

NO LEAKS REPORTED



CASE STUDY

IN A MAJOR RETROFITTING PROJECT, THE OWNER CHOSE TECHCRETE 2500 FOR WATERPROOFING THE CONCRETE ROOF DECKS OF AN 8-STORY BUILDING BEING CONVERTED INTO A MIXED-USE FACILITY. PREVIOUS POSITIVE EXPERIENCES AND THE NEED TO KEEP THE BUILDING WATERTIGHT DURING DEMOLITION AND CONSTRUCTION LED TO THIS CHOICE. TRADITIONAL MEMBRANE SYSTEMS WERE UNSUITABLE DUE TO DEBRIS RISKS, MAKING TECHCRETE 2500'S SUBSURFACE SOLUTION IDEAL. ITS APPROVAL FOR USE OVER OCCUPIED SPACES ENSURED DURABILITY AND WATERTIGHTNESS THROUGHOUT THE ONGOING CONSTRUCTION.

LITTLE RIVER CENTER

LOCATION

MIAMI, FL

APPLICATION DATE

SPRING 2021

PROJECT TYPE

RESIDENTIAL / COMMERCIAL / ROOFTOPS /
EXISTING CONSTRUCTION

COVERAGE AREA

35,000 SQ. FT. - ROOFTOPS ON 2 ND
LEVEL & 8 TH LEVEL

STATUS

NO LEAKS REPORTED



CASE STUDY

IN 2021, PAYCOR STADIUM (FORMERLY THE HOME OF THE NFL'S CINCINNATI BENGALS) SOUGHT LONG-TERM PROTECTION FOR ITS CONCRETE STRUCTURES, BUILT IN 1990. TRADITIONAL LIQUID TRAFFIC COATINGS, WHICH LAST 5-10 YEARS, WERE DEEMED INSUFFICIENT. INSTEAD, THE TECHCRETE 2500 WATERPROOFING SYSTEM BY ALCHEMCO WAS CHOSEN FOR ITS DURABILITY AND COST-EFFECTIVENESS. PHASE I COVERED 48,000 SQ. FT. OF THE STADIUM PLAZA DECK AND STAIRWELLS. THE SUCCESS OF THIS PHASE LED TO PLANS FOR ADDITIONAL PHASES USING TECHCRETE 2500, SATISFYING BOTH THE SPECIFIER AND THE OWNER WITH ITS PERFORMANCE AND EFFICIENCY.

CINCINNATI BENGALS STADIUM

LOCATION

CINCINNATI, OH

APPLICATION DATE

2021

PROJECT TYPE

STADIUMS / PARKING STRUCTURES /
EXISTING STRUCTURES

COVERAGE AREA

42,000 SQ. FT.

STATUS

NO LEAKS REPORTED



CASE STUDY

THE FACTORY WAS FACING COMPLICATIONS DUE TO HUMIDITY, AND WAS DESPERATELY NEEDING PROTECTION AND WATER TIGHTNESS IN ITS CONCRETE SLAB ROOF TO AVOID INTERRUPTIONS IN PRODUCTION.

FACTORY ROOF

LOCATION

RIO DE JANEIRO BRAZIL

APPLICATION DATE

2020

PROJECT TYPE

INDUSTRIAL ROOF

COVERAGE AREA

384 SQM

STATUS

NO LEAKS REPORTED



CASE STUDY

THE TIMING OF THE WATERPROOFING APPLICATION PORTION OF THIS LARGE NEW CONSTRUCTION PROJECT WAS SPREAD OUT OVER THE COURSE OF A FEW YEARS, AS DIFFERENT PARTS OF THE DEVELOPMENT WERE BEING CONSTRUCTED. THE WATERPROOFING PORTION OF EXCITING NEW SERVICED APARTMENT COMPLEX INCLUDED POOLS ... ROOFS ... WATER CONTAINMENT ... PLANTERS ... AND BATHROOMS. BASICALLY, EVERYTHING THAT TOUCHED WATER. IT WAS CRITICAL THAT THE WATERPROOFING WAS ABLE TO BE APPLIED IN TIGHT TIMEFRAME WINDOWS AND BE DONE QUICKLY IN ORDER TO KEEP THE OVERALL CONSTRUCTION SCHEDULE ON TIME.

ONE EQUINE - SERVICED APARTMENT COMPLEX

LOCATION

SELANGOR, MALAYSIA

APPLICATION DATE

2020-2022

PROJECT TYPE

RESIDENTIAL / ROOFTOPS / POOLS /
PLANTERS / NEW CONSTRUCTION

COVERAGE AREA

150,000 SQ. FT.

STATUS

NO LEAKS REPORTED



CASE STUDY

SHIPYARD SOUGHT TO ENSURE THE PROTECTION AND WATERPROOFING OF ITS CONCRETE STRUCTURE.

SHIPYARD ROOF

LOCATION

ESPIRITO SANTO BRAZIL

APPLICATION DATE

2020

PROJECT TYPE

INDUSTRIAL SHIPYARD

COVERAGE AREA

1,800 SQM

STATUS

NO LEAKS REPORTED



CASE STUDY

THE OWNERS OF THIS NEW CONSTRUCTION PROJECT WERE INTERESTED IN A LONG-TERM WATERPROOFING SOLUTION TO PROTECT THE CONCRETE ON THEIR NEW HIGH-END APARTMENT COMPLEX & PARKING STRUCTURE. THE WEATHER CONDITIONS IN SOUTH FLORIDA, PARTICULARLY WITH THE SALT AIR ALONG THE ATLANTIC COAST ARE INCREDIBLY HARSH ON EXPOSED CONCRETE STRUCTURES. SINCE THE PARKING STRUCTURE WAS ENGINEERED TO LAST AT LEAST 50 YEARS, THEY WANTED A WATERPROOFING SYSTEM THAT WOULD LAST FOR DECADES BEFORE NEEDING TO BE REAPPLIED.

ENVY APARTMENT COMPLEX

LOCATION

POMPANO BEACH, FL

APPLICATION DATE

JUNE 2020

PROJECT TYPE

RESIDENTIAL / PARKING STRUCTURE
/ BALCONIES / PEDESTRIAN BRIDGE /
NEW CONSTRUCTION

COVERAGE AREA

22,000 SQ. FT.

STATUS

NO LEAKS REPORTED



CASE STUDY

SEWAGE TREATMENT PLANT IN RIO DE JANEIRO CHOSE TO PROTECT AND WATERPROOF CONCRETE TANKS TO ENSURE SAFETY, DURABILITY AND PREVENT EARLY DAMAGE.

SEWAGE TREATMENT PLANT

LOCATION

RIO DE JANEIRO, BRAZIL

APPLICATION DATE

2020

PROJECT TYPE

TREATMENT PLANT

COVERAGE AREA

7,000 SQM

STATUS

NO LEAKS REPORTED



CASE STUDY

IN 1966, COLORADO STATE UNIVERSITY'S WHALE-SHAPED BASKETBALL ARENA REQUIRED URGENT REPAIR AND WATERPROOFING FOR ITS PLAZA DECK DUE TO HARSH WINTER CONDITIONS AND INEFFECTIVE TEMPORARY SEALERS. TRADITIONAL METHODS LIKE SILANES AND LIQUID COATINGS WERE DEEMED INSUFFICIENT FOR LONG-TERM PROTECTION. THE UNIVERSITY OPTED FOR THE TECHCRETE 2500 WATERPROOFING SYSTEM, UTILIZING EMSS TECHNOLOGY TO FORM A DURABLE SUBSURFACE GEL. THE PROJECT WAS COMPLETED IN TWO PHASES—LATE 2020 AND SPRING 2021—SUCCESSFULLY STOPPING LEAKS AND EXTENDING THE DECK'S LIFESPAN. FOLLOWING THIS, THE SYSTEM WAS ALSO APPLIED TO THE NEW CANVAS STADIUM IN 2022, ENSURING LONG-TERM PROTECTION FOR THE CAMPUS INFRASTRUCTURE.

MOBY ARENA COMPLEX

LOCATION

FT. COLLINS, CO

APPLICATION DATE

2020

PROJECT TYPE

UNIVERSITY / STADIUM – ARENA /
EXISTING CONSTRUCTION – PLAZA
DECK / OVER OCCUPIED SPACE

COVERAGE AREA

SEATING AREA, 8,000+ SEATS

STATUS

NO LEAKS REPORTED



CASE STUDY

FOR THE NEW RONALD MCDONALD HOUSE PARKING STRUCTURE IN CINCINNATI, THE CHALLENGE WAS TO FIND A WATERPROOFING SOLUTION THAT PROVIDED LONG-TERM PROTECTION AND ADDRESSED THE ISSUE OF SUBPAR CONCRETE DENSITY ON THE ENTRY RAMP. TRADITIONAL LIQUID-APPLIED COATINGS, WHICH OFFER SHORT-TERM PROTECTION AND REQUIRE FREQUENT REAPPLICATIONS, WERE LESS SUITABLE. THE TECHCRETE 2500 WATERPROOFING SYSTEM WAS CHOSEN FOR ITS SUPERIOR DURABILITY AND ITS ABILITY TO CORRECT THE CONCRETE DENSITY ISSUE. THE SYSTEM WAS APPLIED EFFICIENTLY, ENSURING LONG-LASTING PROTECTION FROM WEATHER AND CHEMICALS. THE PARKING STRUCTURE NOW BENEFITS FROM TOP-TIER WATERPROOFING, EXTENDING ITS LIFESPAN AND PERFORMANCE.

RONALD MCDONALD HOUSE - PARKING STRUCTURE

LOCATION

CINCINNATI, OH

APPLICATION DATE

2020

PROJECT TYPE

PARKING STRUCTURE / NEW
CONSTRUCTION / RESIDENTIAL

COVERAGE AREA

18,000 SQ. FT.

STATUS

NO LEAKS REPORTED



CASE STUDY

THE CHALLENGE WAS WATERPROOFING A 650,000 SQUARE FEET MALL FOR LONG-TERM WATER PROTECTION. DESPITE COMPETITION FROM PENTENS AND PENETRON, THE DEVELOPER CHOSE TECHCRETE 2500 FOR ITS EMSS TECHNOLOGY, WHICH ENSURES DECADES OF PROTECTION BY FORMING A WATERPROOFING GEL WITHIN THE CONCRETE. ITS RAPID APPLICATION ALSO KEPT THE PROJECT ON SCHEDULE, MEETING THE ARCHITECT'S DURABILITY REQUIREMENTS AND ENSURING TIMELY COMPLETION.

KSL ESPLANADE MALL

LOCATION

BESTARI KLANG, MALAYSIA

APPLICATION DATE

2020 - 2022

PROJECT TYPE

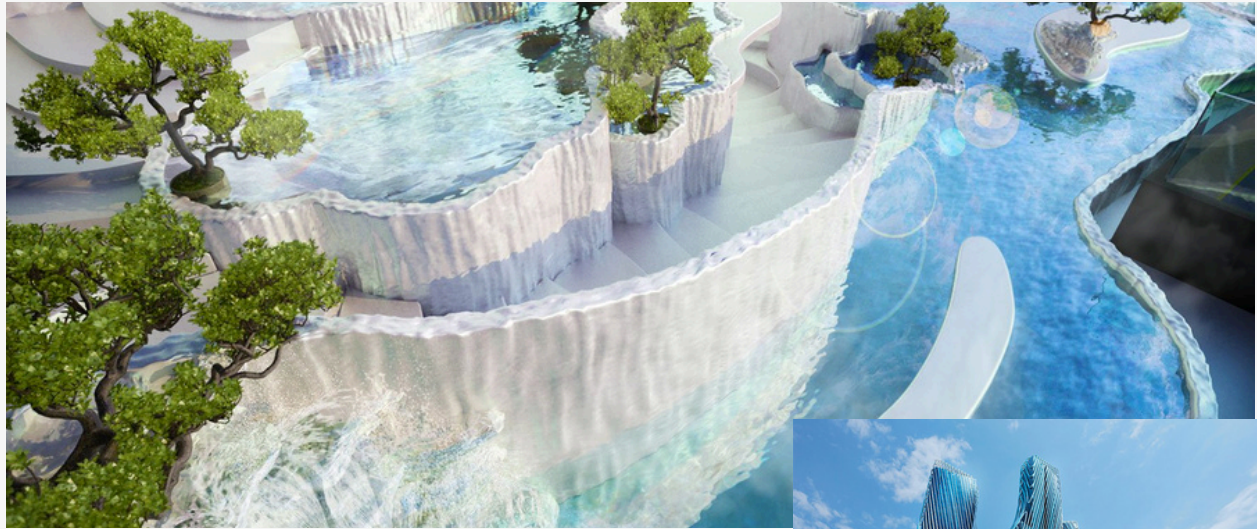
COMMERCIAL / ROOFTOPS / WATER
CONTAINMENT / NEW
CONSTRUCTION

COVERAGE AREA

650000 SQ FT

STATUS

NO LEAKS REPORTED



CASE STUDY

NEW CONSTRUCTION OVER OCCUPIED SPACES WHERE POOLS, JACUZZIS, ROOFS, WATER CONTAINMENT TANKS, SWIMMING AREAS, AND PONDS WERE ALL PROTECTED BY TECHCRETE 2500 WATERPROOFING SYSTEM. THIS SYSTEM PROVIDED WATERTIGHTNESS ON THE 37TH, 47TH, AND 57TH FLOORS OF THIS AMAZING STRUCTURE AS WELL AS THROUGHOUT THE STRUCTURE PER EACH WATER FEATURE.

ARTE MONT KIARA

LOCATION

KUALA LUMPUR, MALAYSIA

APPLICATION DATE

2019-2022

PROJECT TYPE

NEW CONSTRUCTION, POOLS,
WATER FEATURES, ROOFS,
WATER CONTAINMENT TANKS

COVERAGE AREA

600,000+ SQFT

STATUS

NO LEAKS REPORTED





CASE STUDY

THE CHALLENGE AT PURDUE UNIVERSITY'S HARRISON STREET PARKING STRUCTURE (BUILT IN 2012) WAS TO PROVIDE LONG-TERM PROTECTION TO EXTEND ITS SERVICE LIFE. TRADITIONAL OPTIONS LIKE TRAFFIC COATINGS AND SILANE SEALERS, WHICH LAST 5-10 YEARS, WERE INADEQUATE. THE ENGINEERING GROUP SELECTED TECHCRETE 2500 WATERPROOFING SYSTEM FOR ITS ABILITY TO FORM A DURABLE SUBSURFACE WATERPROOFING GEL. WITH A 20-YEAR WARRANTY, TECHCRETE 2500 HAS SUCCESSFULLY PROTECTED THE STRUCTURE FOR FIVE YEARS. ITS EFFECTIVENESS LED THE UNIVERSITY TO USE THE SAME SYSTEM FOR ADDITIONAL PROJECTS, INCLUDING THE 300,000 SQ. FT. MCCUTCHEON DRIVE PARKING STRUCTURE IN SUMMER 2023.

HARRISON STREET PARKING STRUCTURE

LOCATION

LAFAYETTE, IN

APPLICATION DATE

JUNE 2019

PROJECT TYPE

PARKING STRUCTURES / UNIVERSITIES /
EXISTING STRUCTURES

COVERAGE AREA

30,000 SQ. FT.

STATUS

NO LEAKS REPORTED



CASE STUDY

THIS WAS A PROJECT WHERE THE SPECIFIER & OWNER WERE LOOKING FOR THE BEST, FASTEST & MOST ECONOMICAL WAY TO PROVIDE LONG-TERM WATERPROOFING FOR THEIR NEW CONCRETE BUILDING. THIS INCLUDED BEING ABLE TO PROVIDE PROTECTION FOR THE BELOW-GRADE WALLS, AS WELL AS SOME CONCRETE PLANTERS AND AN EXPOSED BALCONY DECK.

PRMI BUILDING

LOCATION

CENTENNIAL PARK, AZ, USA

APPLICATION DATE

JULY 2019

PROJECT TYPE

VERTICAL, BELOW GRADE, PLANTERS
BALCONIES, NEW CONSTRUCTION

COVERAGE AREA

10,000 SQFT

STATUS

NO LEAKS REPORTED





CASE STUDY

THE PEDESTRIAN SKYBRIDGE TO HILTON COLISEUM HAD ONGOING ISSUES WITH CRACKS AND WATER LEAKAGE, CAUSING DISCOMFORT DURING RAIN. THE UNIVERSITY INITIALLY CONSIDERED REPLACEMENT BUT OPTED INSTEAD FOR A WATERPROOFING SOLUTION. TRADITIONAL OPTIONS LIKE SILANE SEALERS AND POLYURETHANE COATINGS WERE INADEQUATE DUE TO THEIR NEED FOR FREQUENT REAPPLICATIONS. THE UNIVERSITY FACILITIES DEPARTMENT CHOSE ALCHEMCO'S TECHCRETE 2500 WITH EMSS TECHNOLOGY, WHICH FORMS A WATERPROOF GEL WITHIN THE CONCRETE, PROTECTING AGAINST WATER INTRUSION AND SEVERE WEATHER. ENVIRONMENTALLY FRIENDLY AND POTABLE WATER CERTIFIED, THIS SOLUTION EFFECTIVELY ADDRESSED THE SKYBRIDGE'S ISSUES.

HILTON COLISSEUM

LOCATION

AMES, IA

APPLICATION DATE

JUNE 2019

PROJECT TYPE

PEDESTRIAN BRIDGE / STADIUMS &
ARENAS / EXISTING STRUCTURES

COVERAGE AREA

UNKNOWN

STATUS

NO LEAKS REPORTED



CASE STUDY

THE LSU HEALTH SCIENCE CENTER NEEDED A LONG-TERM SOLUTION FOR THEIR PARKING STRUCTURE, WHICH HAD AN EXISTING SHORT-TERM TRAFFIC COATING. TO AVOID THE RECURRING COSTS AND LABOR OF REPLACING THE COATING, THEY CHOSE TECHCRETE 2500 WATERPROOFING SYSTEM FOR ITS DURABILITY AND VALUE. UNLIKE CONVENTIONAL LIQUID COATINGS OR SHORT-LIVED SEALERS, TECHCRETE 2500 CREATES A SUBSURFACE GEL THAT PROVIDES LASTING PROTECTION WITHOUT AFFECTING THE CONCRETE'S APPEARANCE OR FUNCTIONALITY. APPLIED ONCE, IT HAS SUCCESSFULLY MET THE UNIVERSITY'S NEEDS, ELIMINATING FUTURE RE-COATING REQUIREMENTS AND FREEING UP BUDGET FOR OTHER CAMPUS PROJECTS.

LSU HEALTH SCIENCES PARKING STRUCTURE

LOCATION

NEW ORLEANS, LA

APPLICATION DATE

SUMMER 2019, 2020 & 2021

PROJECT TYPE

PARKING STRUCTURES / UNIVERSITIES /
EXISTING STRUCTURES

COVERAGE AREA

29,200 SQ. FT.

STATUS

NO LEAKS REPORTED



CASE STUDY

THIS INDUSTRIAL PLANT IN MINAS GERAIS, BRAZIL NEEDED TO PROVIDE WATERPROOFING TO THEIR DECANTATION BASIN ON SITE ESPECIALLY AGAINST CLORIDE IONS. OVER 465SQM OF VERTICAL AND HORIZONTAL APPLICATIONS OF TECHCRETE 2500 WATERPROOFING SYSTEM WAS APPLIED .

DECANTATION BASIN

LOCATION

MINAS GERAIS, BRAZIL

APPLICATION DATE

2019

PROJECT TYPE

DECANTATION BASIN

COVERAGE AREA

4655 SQM

STATUS

NO LEAKS REPORTED



CASE STUDY

THE CHALLENGE WAS TO FIND A LONG-LASTING CONCRETE WATERPROOFING SYSTEM FOR ROOFTOPS AND PARKING STRUCTURES THAT DIDN'T REQUIRE FREQUENT REAPPLICATIONS. WHILE CONSIDERING PENTENS AND PENETRON, THE DEVELOPER CHOSE TECHCRETE 2500 FOR ITS EMSS SUBSURFACE TECHNOLOGY, WHICH FORMS A WATERPROOF GEL WITHIN THE CONCRETE MATRIX. TECHCRETE 2500 IS ENVIRONMENTALLY FRIENDLY, VOC-FREE, AND POTABLE WATER CERTIFIED, AND ITS RAPID APPLICATION HELPED KEEP THE PROJECT ON SCHEDULE FOR TIMELY COMPLETION.

SUNWAY BIG BOX RETAIL PARK

LOCATION

ISKANDAR PUTRI, JOHOR

APPLICATION DATE

2018 -2019

PROJECT TYPE

COMMERCIAL / ROOFTOPS / PARKING
STRUCTURE / NEW CONSTRUCTION

COVERAGE AREA

UNKNOWN

STATUS

NO LEAKS REPORTED



CASE STUDY

THE 8TH LEVEL OF A PARKING STRUCTURE CONNECTED TO THE BANK OF AMERICA TOWER IN JACKSONVILLE, FL, NEEDED DURABLE WATERPROOFING TO PROTECT THE CONCRETE AND STEEL REINFORCEMENT BARS FROM CORROSION. TRADITIONAL METHODS LIKE SILANE SEALERS AND POLYURETHANE TRAFFIC COATINGS OFFERED SHORT-TERM SOLUTIONS AND REQUIRED FREQUENT REAPPLICATION. HERTZ INVESTMENT GROUP SELECTED THE TECHCRETE 2500 WATERPROOFING AGENT, WHICH THEY HAD SUCCESSFULLY USED ON OTHER PROPERTIES. THIS AGENT FORMS A SUBSURFACE WATERPROOFING GEL THAT PREVENTS LIQUID INGRESS AND PROTECTS AGAINST CORROSION. THE SYSTEM IS EFFECTIVELY SAFEGUARDING THE STRUCTURE, PROVIDING LONG-TERM PROTECTION AND EXTENDING ITS LIFESPAN.

BANK OF AMERICA TOWER

LOCATION

JACKSONVILLE, FL

APPLICATION DATE

SEPT 2018

PROJECT TYPE

PARKING STRUCTURE / EXISTING
CONSTRUCTION

COVERAGE AREA

13,000 SQ. FT.

STATUS

NO LEAKS REPORTED



CASE STUDY

THE LARGEST FLOATING DRY DOCK IN AMERICA NEEDED PROTECTION AND WATERPROOFING DUE TO DIRECT CONTACT WITH SALT WATER AND WEATHER, PREVENTING DETERIORATION OF THE CONCRETE. TECHCRETE 2500 WAS SPECIFIED ON THIS STRUCTURE.

MARISCO FLOATING DOCK

LOCATION

KAPOLEI, HI, USA

APPLICATION DATE

2017

PROJECT TYPE

MARINE DRY DOCK

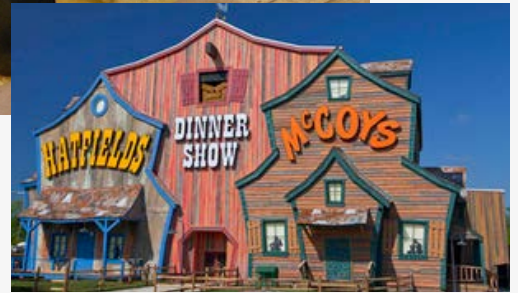
COVERAGE AREA

33,000+ SQFT

STATUS

NO LEAKS REPORTED





CASE STUDY

HATFIELD AND MCCOY'S DINNER THEATER WATER HOLDING TANK HAD A LEAK THAT WAS UNLOCATABLE AND HINDERING OPERATIONS. BOTH VERTICAL AND HORIZONTAL APPLICATIONS WERE INSTALLED USING TECHCRETE 2500 WATERPROOFING SYSTEM ON THIS PRECAST HOLDING TANK.

WITHIN TWO DAYS OF OUR INSTALLATION THE WATER HOLDING TANK WAS WATERPROOFED, LEAK FREE AND ALLOWED THE SHOW TO GO ON.

HATFIELDS & MCCOYS DINNER THEATER

LOCATION

PIGEON FORGE, TN, USA

APPLICATION DATE

2017

PROJECT TYPE

WATER CONTAINMENT TANK

COVERAGE AREA

6,000+ SQFT/ 120,000 GALLON WATER TANK

STATUS

NO LEAKS REPORTED





CASE STUDY

NEW CONSTRUCTION WATER TREATMENT FACILITY COOLING TOWER & CONCRETE WATERTANKS. TECHCRETE 2500 WAS APPLIED BY IMPERMIL IN MATO GROSSO, BRAZIL. OUR WATERPROOFING SYSTEM HAS DESIGNED PROTECTION TO EXCEED THE DESIGN LIFE OF THE STRUCTURES SPECIFIED BY THE ENGINEERS.

WATER TREATMENT FACILITY

LOCATION

BRAZIL

APPLICATION DATE

2016

PROJECT TYPE

COOLING TOWERS & CONCRETE
WATER TANKS

COVERAGE AREA

175,000 SQFT

STATUS

NO LEAKS REPORTED





CASE STUDY

DESIGNERS FACED THE CHALLENGE OF FINDING AN EFFICIENT WATERPROOFING SOLUTION FOR BMW'S LARGE WAREHOUSE AND PARKING FACILITIES. SPEED WAS CRUCIAL TO STAY ON SCHEDULE WHILE PROVIDING LASTING PROTECTION. DESPITE CONSIDERING COMPETITORS LIKE PENTENS AND PENETRON, TECHCRETE 2500 WATERPROOFING SYSTEM WAS CHOSEN FOR ITS LONG-TERM EFFECTIVENESS AND RAPID APPLICATION. ITS EMSS TECHNOLOGY CREATES A DURABLE WATERPROOFING GEL WITHIN THE CONCRETE, ENSURING BOTH DURABILITY AND TIMELY PROJECT COMPLETION, WHICH SUPPORTED BMW'S REGIONAL EXPANSION AND JOB CREATION.

BMW REGIONAL PARTS DISTRIBUTION CENTER

LOCATION

SENAI JOHORE, MALAYSIA

APPLICATION DATE

SPRING 2016

PROJECT TYPE

COMMERCIAL WAREHOUSE / CAR PARK /
ROOFTOPS/ NEW CONSTRUCTION

COVERAGE AREA

161,000 SQ. FT.

STATUS

NO LEAKS REPORTED



CASE STUDY

WATERPROOFING A 72-ACRE CONSTRUCTION PROJECT WITH SHOPPING MALLS, OFFICE TOWERS, AND HOTELS OVER SEVERAL YEARS POSED SIGNIFICANT LOGISTICAL CHALLENGES. TIMELY AND EFFECTIVE WATERPROOFING WAS CRUCIAL TO KEEPING THE PROJECT ON SCHEDULE. DESPITE COMPETITION, THE DEVELOPER CHOSE TECHCRETE 2500 FOR ITS UNIQUE EMSS TECHNOLOGY, WHICH PROVIDES LONG-TERM PROTECTION AND RAPID APPLICATION. THIS SOLUTION MET DIVERSE NEEDS, INCLUDING BATHROOMS, POOLS, AND ROOFS, ENSURING THE PROJECT WAS COMPLETED ON TIME.

I-CITY SHAL ALAM

LOCATION

SELANGOR, MALAYSIA

APPLICATION DATE

2016 - 2019

PROJECT TYPE

RESIDENTIAL / COMMERCIAL /
ROOFTOPS / POOLS / WATER PARK /
NEW CONSTRUCTION

COVERAGE AREA

UNKNOWN

STATUS

NO LEAKS REPORTED



CASE STUDY

IN THE THIRD PHASE OF THE SANCTUARY DEVELOPMENT PROJECT, THE CHALLENGE WAS TO SCHEDULE AND APPLY CONCRETE WATERPROOFING ACROSS VARIOUS AREAS, INCLUDING ROOFTOPS, BATHROOMS, AND POOLS, WITHOUT DELAYING THE OVERALL CONSTRUCTION. THE SELECTED TECHCRETE 2500 WATERPROOFING SYSTEM, FEATURING EMSS TECHNOLOGY, WAS CHOSEN OVER COMPETITORS LIKE PENTENS AND PENETRON. TECHCRETE 2500'S ABILITY TO FORM A WATERPROOF GEL WITHIN THE CONCRETE AND ITS RAPID APPLICATION HELPED MAINTAIN THE PROJECT SCHEDULE. ALTHOUGH THE PROJECT IS ONGOING, THE SYSTEM'S SPEED AND EFFECTIVENESS HAVE SO FAR KEPT CONSTRUCTION ON TRACK AND ARE EXPECTED TO PROVIDE LONG-TERM PROTECTION.

TRIUNI RESIDENCE @ THE SANCTUARY

LOCATION

GELUGOR, PULAU PENANG

APPLICATION DATE

2016 - 2024

PROJECT TYPE

RESIDENTIAL / ROOFTOPS / POOLS /
PLANTERS / BATHROOMS / PODIUMS /
NEW CONSTRUCTION

COVERAGE AREA

UNKNOWN

STATUS

NO LEAKS REPORTED



CASE STUDY

THE BEST WESTERN PREMIERE GRAND ION DELEMEN HOTEL PROJECT ON TOP OF THE MOUNTAINS OF GENTLING HIGHLANDS IS ONE OF MALAYSIA'S ICONIC HOTELS. THIS NEW CONSTRUCTION PROJECT REQUIRED RELIABLE CONCRETE WATERPROOFING DURING THE ERECTION OF SEVEN TOWERS, AND ALL OF THE AREAS IN NEED OF WATER CONTAINMENT (POOLS, FOUNTAINS, ETC.). IT ALSO REQUIRED WATERPROOFING FOR THE CAR PARK STRUCTURES AND ROOFTOPS.

GRAND ION DELEMEN HOTEL

LOCATION

GENTLING HIGHLANDS, PAHANG,
MALAYSIA

APPLICATION DATE

2014-2016

PROJECT TYPE

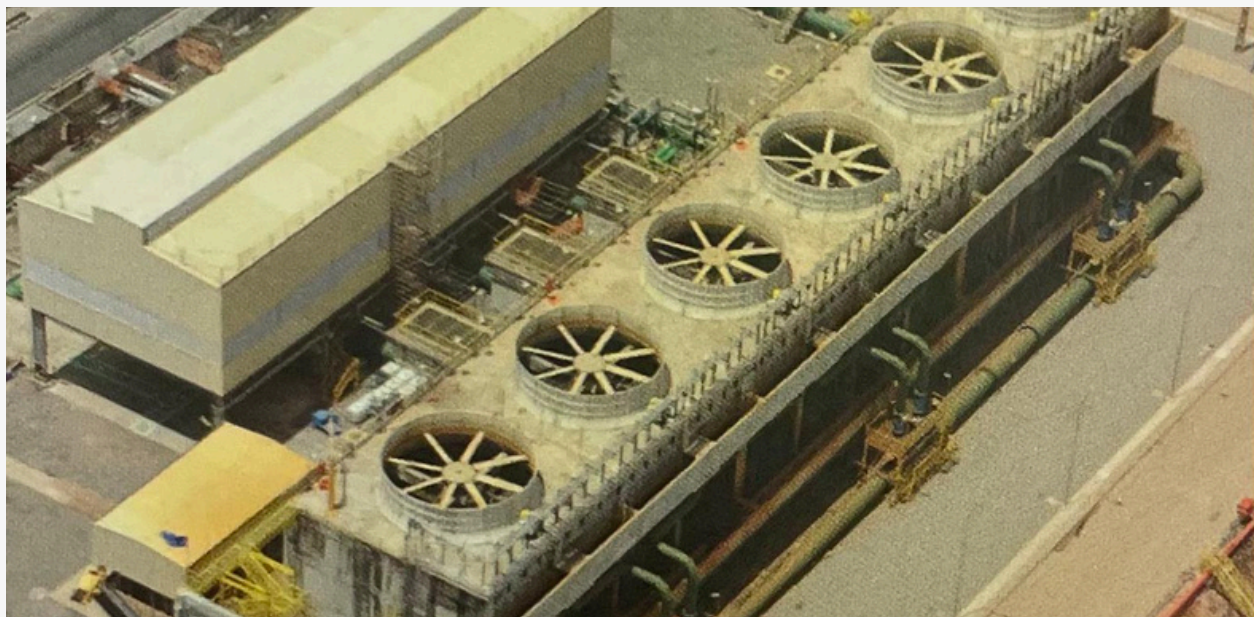
ROOFS / PARKING STRUCTURES / POOLS
/ PLANTERS / BATHROOMS / NEW
CONSTRUCTION

COVERAGE AREA

7 TOWERS & POOLS

STATUS

NO LEAKS REPORTED



CASE STUDY

CMPC

LOCATION

GUAÍBA – RS

APPLICATION DATE

2014

PROJECT TYPE

REINFORCED CONCRETE RESERVOIRS

COVERAGE AREA

10,000 M² (APPROXIMATELY 107,640 SQ FT)

STATUS

NO LEAKS REPORTED



CASE STUDY

THE DESIGN FOR A NEW SPORTS HALL ON A SCHOOL CAMPUS FEATURED A RAISED MULTI-SPORT ARTIFICIAL TURF FIELD CONSTRUCTED ABOVE A 166-SPACE CAR PARK TO SAVE SPACE. ENSURING THE STRUCTURAL CONCRETE WAS PROTECTED FROM WEATHER WAS CRUCIAL. THE DESIGNERS CHOSE A CRYSTALLINE ADMIXTURE WATERPROOFING PRODUCT BASED ON POSITIVE PAST EXPERIENCES WITH A SIMILAR PROJECT. THIS ADMIXTURE WAS MIXED INTO THE CONCRETE FOR THE 15,000 SQ. FT. SLAB, ENHANCING ITS WATERPROOF PROPERTIES AND PROTECTING THE STEEL IN THE POST-TENSION CONCRETE SLAB FROM CORROSION.

ABBOTSLIGH SCHOOL

LOCATION

SYDNEY, AUSTRALIA

APPLICATION DATE

2014

PROJECT TYPE

STADIUM – SPORTS COMPLEX /
SCHOOL / CAR PARK
/ NEW CONSTRUCTION

COVERAGE AREA

15,000 SQ. FT.

STATUS

NO LEAKS REPORTED



CASE STUDY

THE 2.3-MILE-LONG BRIDGE CONNECTING HANOI CITY CENTER WITH NOI BAI INTERNATIONAL AIRPORT REQUIRED DURABLE WATERPROOFING FOR ITS 1 MILLION SQ. FT. CONCRETE DECK. TEMPORARY SOLUTIONS WERE INADEQUATE, SO TECHCRETE 2500 WAS CHOSEN FOR ITS LONG-TERM PROTECTION, ENVIRONMENTAL BENEFITS, AND RAPID APPLICATION. THIS CHOICE KEPT THE PROJECT ON SCHEDULE AND PROVIDED A SUBSURFACE WATERPROOFING MEMBRANE THAT HAS EFFECTIVELY PROTECTED THE BRIDGE FOR A DECADE. AS A RESULT, THE BRIDGE IS EXPECTED TO HAVE AN EXTENDED LIFESPAN AND REMAIN IN EXCELLENT CONDITION FOR MANY YEARS.

NHAT TAN BRIDGE

LOCATION

HANOI, VIETNAM

APPLICATION DATE

2013-2014

PROJECT TYPE

BRIDGE

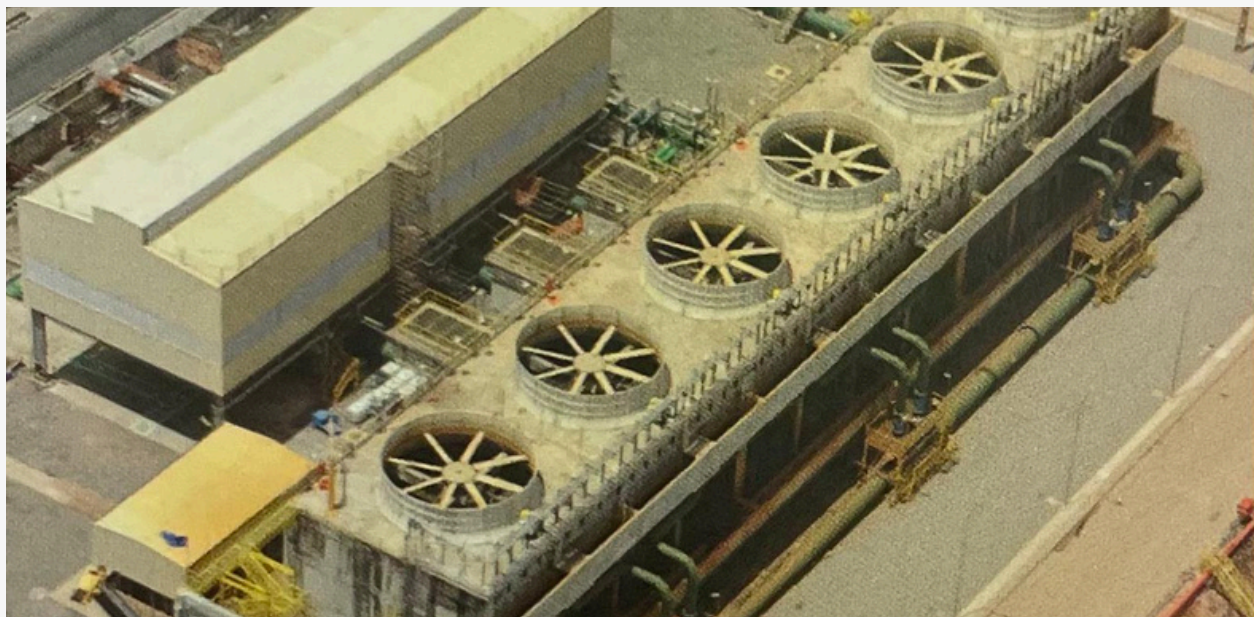
COVERAGE AREA

1,000,000+ SQFT

STATUS

NO LEAKS REPORTED





CASE STUDY

RNEST PETROBRAS TR 53001 & 52001

LOCATION

IPOJUCA - PE

APPLICATION DATE

2013 & 2014

PROJECT TYPE

REINFORCED CONCRETE RESERVOIRS

COVERAGE AREA

6,500 M² (APPROXIMATELY 69,965 SQ FT)

5,500 M² (APPROXIMATELY 59,200 SQ FT)

STATUS

NO LEAKS REPORTED



CASE STUDY

ETDI - INDUSTRIAL EFFLUENT TREATMENT STATION / RNEST PETROBRAS

LOCATION

IPOJUCA - PE

APPLICATION DATE

2013

PROJECT TYPE

- WATER AND OIL SEPARATOR
- SAND REMOVAL
- FINAL COLLECTING BASINS
- COOLING TOWERS

COVERAGE AREA

+247,570 SQ FT COMPLETED AND IN OPERATION

STATUS

NO LEAKS REPORTED



CASE STUDY

TREATMENT FOR THE UFN3 CONSORTIUM OF REINFORCED CONCRETE RESERVOIRS FOR RAW WATER COLLECTION AND THE COOLING TOWER OF THE NITROGEN FERTILIZER UNIT 3 (UFN3) IN TRÊS LAGOAS - MG, TOTALING OVER 18,000 M² (APPROXIMATELY 193,750 SQ FT).

UFN3

LOCATION

TRÊS LAGOAS - MG

APPLICATION DATE

2013

PROJECT TYPE

REINFORCED CONCRETE RESERVOIRS

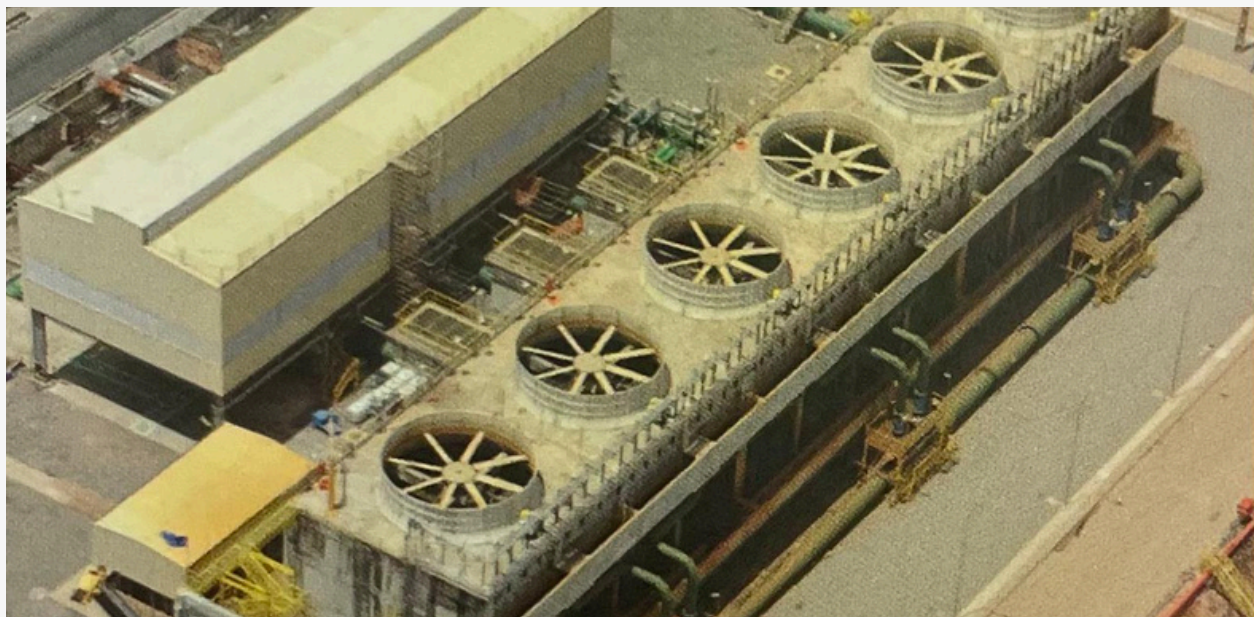
COVERAGE AREA

18,000 M² (APPROXIMATELY 193,750 SQ FT).

STATUS

NO LEAKS REPORTED





CASE STUDY

ELDORADO PAPEL E CELULOSE

LOCATION

TRÊS LAGOAS - MS

APPLICATION DATE

2012

PROJECT TYPE

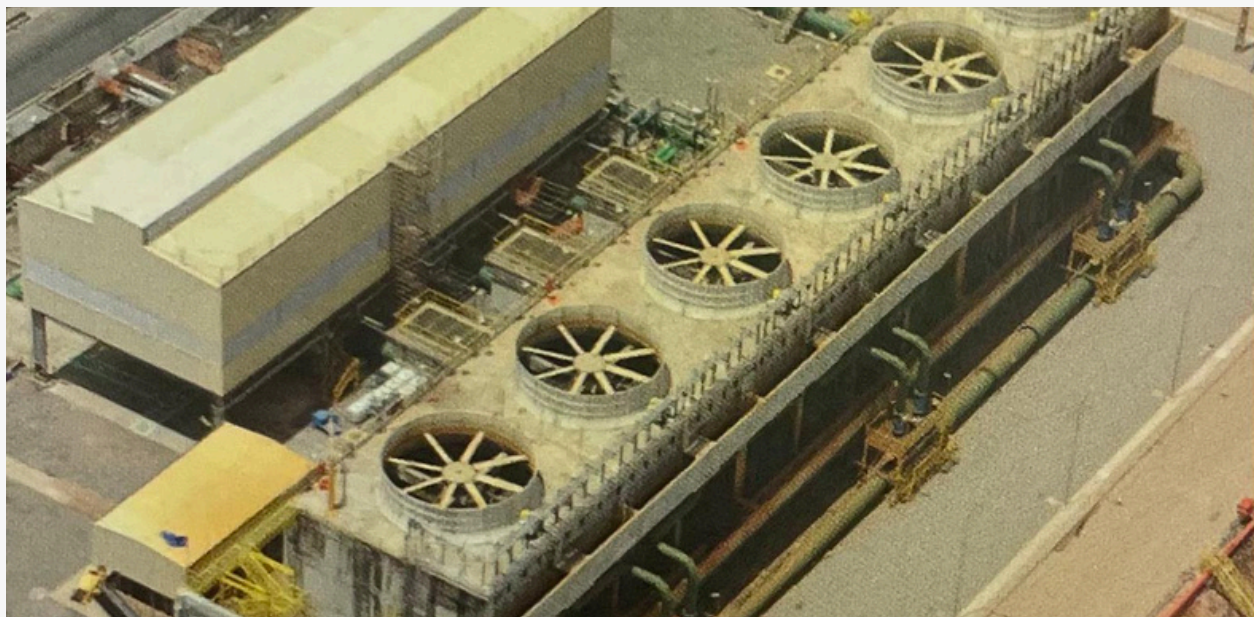
REINFORCED CONCRETE RESERVOIRS

COVERAGE AREA

EVAP 12,000 M² (APPROXIMATELY 129,170 SQ FT) /
BOP 2,000 M² (APPROXIMATELY 21,530 SQ FT)

STATUS

NO LEAKS REPORTED



CASE STUDY

MWM RIGESA PAPEL E CELULOSE

LOCATION

TRÊS BARRAS - SC

APPLICATION DATE

2011

PROJECT TYPE

REINFORCED CONCRETE RESERVOIRS

COVERAGE AREA

2,000 M² (APPROXIMATELY 21,530 SQ FT)

STATUS

NO LEAKS REPORTED



CASE STUDY

MIAMI INTERNATIONAL AIRPORTS PARKING DECKS ARE SUBJECT TO ENVIRONMENTAL HAZARDS AND CONTAMINANTS SUCH AS HUMIDITY, SALT, PONDING AND JET FUEL. WE WATERPROOFED OVER 700,000SQFT OF CONCRETE THAT IS EXPOSED TO THE HARSH ENVIRONMENTAL HAZARDS.

MIAMI INTERNATIONAL AIRPORT

LOCATION

MIAMI, FL, USA

APPLICATION DATE

2010-2015

PROJECT TYPE

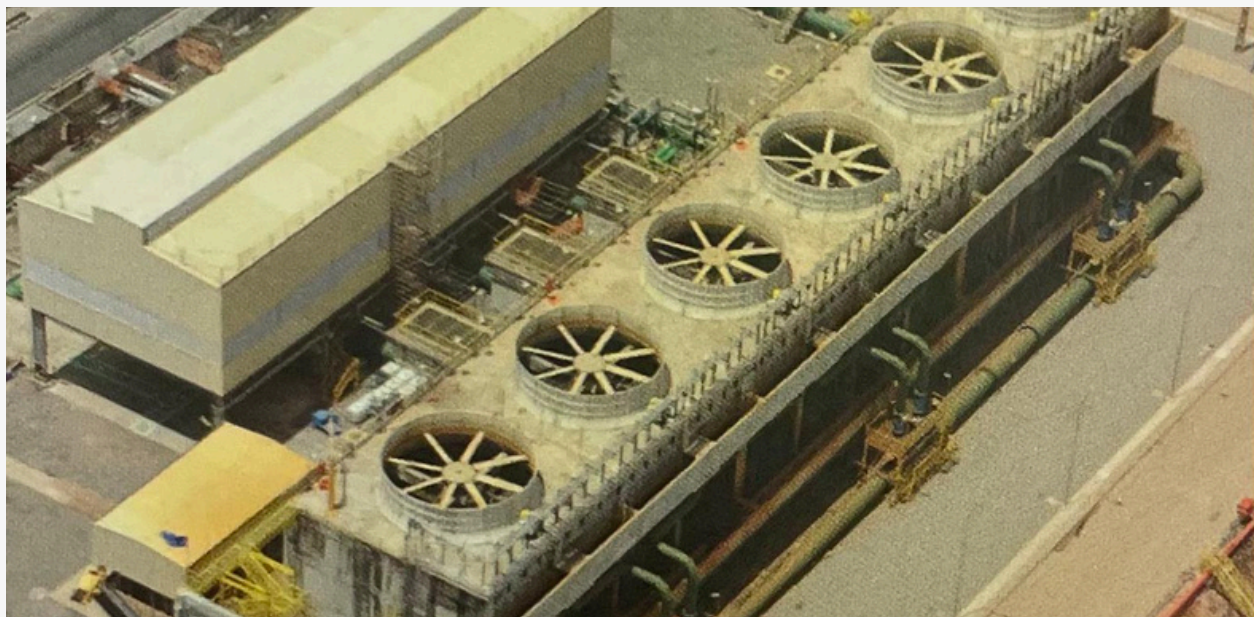
DOLPHIN & FLAMINGO PARKING

COVERAGE AREA

700,000SQFT

STATUS

NO LEAKS REPORTED



CASE STUDY

COSAN BOP

LOCATION

IPAUCU – SP

APPLICATION DATE

2010

PROJECT TYPE

REINFORCED CONCRETE RESERVOIRS

COVERAGE AREA

1,500 M² (APPROXIMATELY 16,145 SQ FT)

STATUS

NO LEAKS REPORTED



CASE STUDY

AT THE THERMOELECTRIC PLANT IN SAO LUIZ, NORTHEAST BRAZIL, WHICH UTILIZES SEA WATER IN ITS COOLING TOWERS, TECHCRETE 2500 WAS APPLIED TO ALL SURFACES INSIDE THESE TOWERS. THIS APPLICATION WAS CRUCIAL IN PROTECTING THE CONCRETE TANKS FROM CHLORIDE INGRESS, A COMMON CHALLENGE POSED BY AGGRESSIVE CORROSIVE AGENTS LIKE SEAWATER. TECHCRETE 2500 HAS BEEN WIDELY ADOPTED GLOBALLY TO EFFECTIVELY HALT THE PENETRATION OF SUCH CORROSIVE AGENTS, SAFEGUARDING BOTH THE CONCRETE STRUCTURES AND THEIR REINFORCEMENTS IN VARIOUS COUNTRIES.

MPX ITAQUI BRAZIL - SALT WATER TANKS

LOCATION

BRAZIL

APPLICATION DATE

2010

PROJECT TYPE

WATER HOLDING VESSEL

COVERAGE AREA

5000 M2

STATUS

NO LEAKS REPORTED



CASE STUDY

TECHCRETE 2500 WAS RECENTLY APPLIED TO THE PLATFORM OF THE PETROLEUM LIQUID NATURAL GAS TERMINAL IN BARRA DO RIACHO, ARACRUZ - ESPÍRITO SANTO, BRAZIL. CONSTRUCTED BY THE RIO DE JANEIRO OFFICE OF CHRISTIANI NEILSEN ENGINEERING S/TO, TECHCRETE 2500 WAS SELECTED TO PROTECT THE CONCRETE AND REINFORCEMENT AGAINST AGGRESSIVE CHLORIDE ATTACK, COMMON IN MARINE ENVIRONMENTS. THIS APPLICATION AIMS TO EXTEND THE LIFESPAN OF THE STRUCTURE BY ENHANCING ITS RESISTANCE TO SALTWATER CORROSION. PETROBRAS, ONE OF THE LARGEST OIL PRODUCERS GLOBALLY AND IN BRAZIL, OVERSEES THESE CRITICAL INFRASTRUCTURE PROJECTS.

PETROBRAS TERMINAL

LOCATION

BRAZIL

APPLICATION DATE

2010

PROJECT TYPE

OIL TRANSPORTATION TERMINAL

COVERAGE AREA

33,000 SQFT

STATUS

NO LEAKS REPORTED





CASE STUDY

IN 2010, THE STADIUM HOME TO FC MODENA SINCE 1936 UNDERWENT RENOVATIONS, FOCUSING ON REFURBISHING THE CONCRETE SEATING AREAS TO EXTEND ITS LIFESPAN. TRADITIONAL LIQUID POLYURETHANE COATINGS, REQUIRING FREQUENT REAPPLICATIONS AND LABOR DUE TO THE STADIUM'S 20,000+ SEATS, WERE DEEMED INADEQUATE. INSTEAD, THE SEATS WERE REMOVED, OLD COATINGS STRIPPED, AND THE CONCRETE CLEANED. TECHCRETE 2500 WATERPROOFING AGENT, USING EMSS TECHNOLOGY, WAS APPLIED TO FORM A LONG-LASTING WATERPROOF GEL, ENSURING DURABLE PROTECTION AGAINST WEATHER AND STEEL CORROSION FOR DECADES.

GRAND ION DELEMEN HOTEL

LOCATION

MODENA, ITALY

APPLICATION DATE

2010

PROJECT TYPE

STADIUM / EXISTING CONSTRUCTION

COVERAGE AREA

150,000 SQ. FT.

STATUS

NO LEAKS REPORTED



CASE STUDY

THE PRIMARY CHALLENGE IN CONSTRUCTING A WATER PARK INSIDE BAHRAIN'S CITY CENTRE MALL WAS WATERPROOFING ITS 200,000 SQ. FT. OF SWIMMING AREAS, WHICH HOLD 4.5 MILLION GALLONS OF WATER. THE SOLUTION WAS THE EMSS (ENZYME MODIFIED SODIUM SILICATE) TECHNOLOGY, WHICH REACTS WITH CONCRETE TO FORM A SUBSURFACE WATERPROOFING GEL, ENSURING LONG-TERM PROTECTION WITHOUT AFFECTING SURFACE SLIPPERINESS. THIS INNOVATIVE APPROACH ALLOWED FOR RAPID AND ECO-FRIENDLY APPLICATION, KEEPING THE PROJECT ON SCHEDULE.

WAHOO WATER PARK

LOCATION

BAHRAIN CITY, BAHRAIN, UNITED ARAB
EMIRATES

APPLICATION DATE

2009

PROJECT TYPE

WATER CONTAINMENT / SWIMMING
POOLS / NEW CONSTRUCTION

COVERAGE AREA

200,000 SQ. FT.

STATUS

NO LEAKS REPORTED



CASE STUDY

THIS WATER STORAGE TANK, HOLDING 10 MILLION LITERS OF DRINKING WATER, WAS WATERPROOFED USING TECHCRETE 2500 FROM THE OUTSET OF THE PROJECT. TECHCRETE 2500 WAS SELECTED FOR ITS EXCEPTIONAL QUALITIES: EASY APPLICATION, NON-TOXIC FORMULATION, AND COST-EFFECTIVENESS. THESE ATTRIBUTES MADE IT THE IDEAL CHOICE TO ENSURE THE TANK MET STRINGENT WATERPROOFING REQUIREMENTS WHILE MAINTAINING SAFETY STANDARDS AND ECONOMIC VIABILITY THROUGHOUT THE CONSTRUCTION PROCESS.

MANILA WATER

LOCATION

PHILIPPINES

APPLICATION DATE

2008

PROJECT TYPE

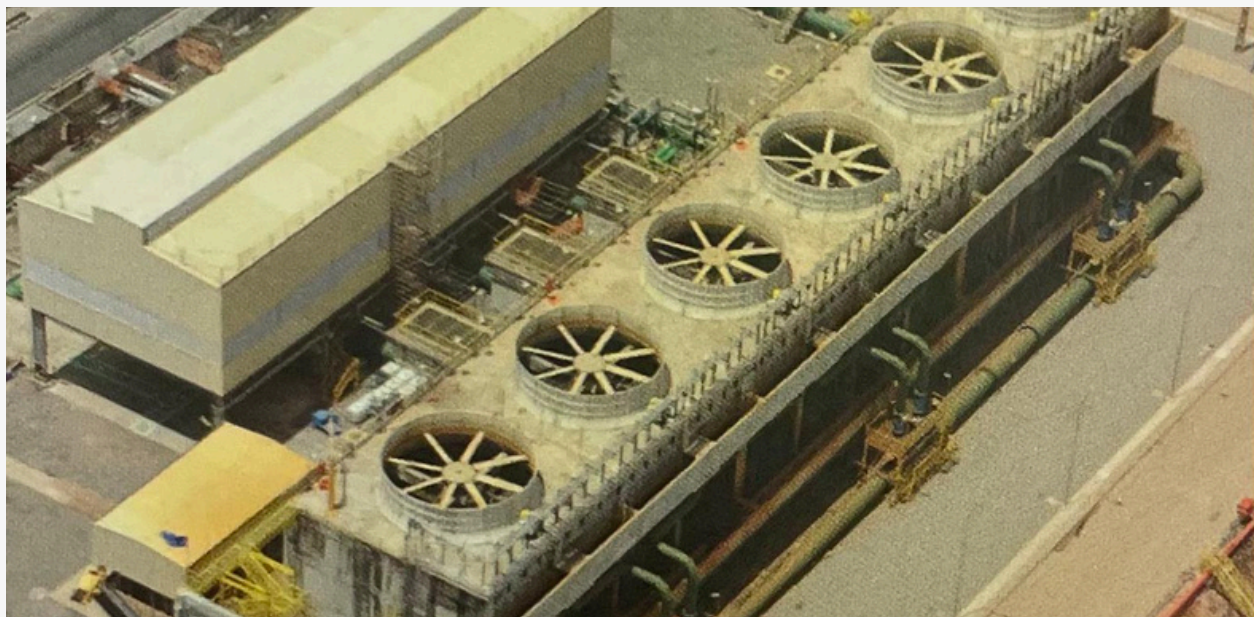
WATER HOLDING VESSEL

COVERAGE AREA

2050 M2

STATUS

NO LEAKS REPORTED



CASE STUDY

VCP PAPEL E CELULOSE BOP - NOW FIBRIA

LOCATION

TRÊS LAGOAS - MS

APPLICATION DATE

2008

PROJECT TYPE

REINFORCED CONCRETE RESERVOIRS

COVERAGE AREA

6,000 M² (APPROXIMATELY 64,585 SQ FT)

STATUS

NO LEAKS REPORTED



CASE STUDY

THE BEST WESTERN PREMIERE GRAND ION DELEMEN HOTEL PROJECT ON TOP OF THE MOUNTAINS OF GENTLING HIGHLANDS IS ONE OF MALAYSIA'S ICONIC HOTELS. THIS NEW CONSTRUCTION PROJECT REQUIRED RELIABLE CONCRETE WATERPROOFING DURING THE ERECTION OF SEVEN TOWERS, AND ALL OF THE AREAS IN NEED OF WATER CONTAINMENT (POOLS, FOUNTAINS, ETC.). IT ALSO REQUIRED WATERPROOFING FOR THE CAR PARK STRUCTURES AND ROOFTOPS.

PETERSEN EVENTS CENTER - UNIVERSITY OF PITTSBURGH

LOCATION

PITTSBURGH, PA

APPLICATION DATE

2007

PROJECT TYPE

PLAZA DECK / CONCOURSE & STEPS
/ARENAS & STADIUMS / EXISTING
CONSTRUCTION / UNIVERSITIES

COVERAGE AREA

48,000 SQ. FT.

STATUS

NO LEAKS REPORTED



CASE STUDY

LOWES CORPORATE HEADQUARTERS, A LEED GOLD-CERTIFIED FACILITY, WAS SUCCESSFULLY WATERPROOFED WITH ALCHEMCO'S FORMULA. OVER 95,000SQFT OF THEIR PARKING STRUCTURE WERE WATERPROOFED AND WERE DESIGNED WITH GALVANIZED BEAMS, SO WATERPROOFING THE CONCRETE SLABS WERE OF THE MOST IMPORTANCE TO HELP PROTECT AND PRESERVE THIS STATE OF THE ART STRUCTURE.

LOWES CORPORATE HEADQUARTERS

LOCATION

MOORESVILLE, NC, USA

APPLICATION DATE

2006

PROJECT TYPE

PARKING STRUCTURE

COVERAGE AREA

95,000SQFT

STATUS

NO LEAKS REPORTED





CASE STUDY

THE CHALLENGE WAS TO PROTECT A 17,000 SQ. FT. AREA OF THE CENTRAL PARKING STRUCTURE FROM DETERIORATION DUE TO SALT AIR, HARSH WINTERS, AND CORROSIVE SNOW AND ICE MELT. TRADITIONAL OPTIONS LIKE SILANE SEALERS AND POLYURETHANE TRAFFIC COATINGS, WHICH OFFER SHORT-TERM PROTECTION AND REQUIRE FREQUENT REAPPLICATION, WERE INADEQUATE. THE SOLUTION WAS TECHCRETE 2500 WATERPROOFING SYSTEM, WHICH FORMS A DURABLE SUBSURFACE GEL THAT PREVENTS WATER INGRESS AND DAMAGE. APPLIED SUCCESSFULLY, IT HAS EFFECTIVELY PROTECTED THE STRUCTURE FOR NEARLY TWO DECADES WITHOUT NEEDING REAPPLICATION.

LOGAN INTERNATIONAL AIRPORT - PARKING STRUCTURE

LOCATION

EAST BOSTON, MA

APPLICATION DATE

2006

PROJECT TYPE

PARKING STRUCTURE / AIRPORT

COVERAGE AREA

17,000 SQ. FT.

STATUS

NO LEAKS REPORTED



CASE STUDY

INITIALLY THE SPRAY ON FORMULA WAS INSTALLED ON A PORTION OF THE WARF'S CONCRETE SURFACE. BY 2014, THE PREVIOUSLY TREATED AREAS WERE COMPLETELY UNDAMAGED WHILE THE AREAS THAT WERE UNTREATED HAD DETERIORATED BADLY. THIS INITIATED A SECOND INSTALLATION WITH OUR FORMULA TO COVER THE REMAINING UNTREATED 64,500SQFT IN A SINGLE DAY.

PORT OF KOPER

LOCATION

SLOVENIA

APPLICATION DATE

2006 & 2014

PROJECT TYPE

CONCRETE WARF

COVERAGE AREA

UNDOCUMENTED SQFT
64,500+ SQFT

STATUS

NO LEAKS REPORTED

FINDINGS

THE BUILDING INSTITUTE OF SLOVENIA INVESTIGATED THE RESULTS OF THE INITIAL APPLICATION AND DUE TO THE SUCCESSFUL RESULTS THEY PROCEEDED TO PROTECT THE REMAINING UNTREATED AREAS.



CASE STUDY

TECHCRETE 2500 WATERPROOFING SYSTEM WAS APPLIED TO THE 8 STORY TALL VERTICAL WALLS ON THIS NEWLY CONSTRUCTED \$77 MILLION MIXED USE RESIDENTIAL COMPLEX.

UNIVERSITY OF PENNSYLVANIA - DOMAS

LOCATION

PHILADELPHIA, PA

APPLICATION DATE

OCTOBER 2006

PROJECT TYPE

NEW CONSTRUCTION - RESIDENTIAL

COVERAGE AREA

100,000 SQFT

STATUS

NO LEAKS REPORTED





CASE STUDY

THE PRINCE RESORT'S 15-YEAR-OLD PARKING STRUCTURE IN SOUTH CAROLINA, EXPOSED TO HARSH COASTAL CONDITIONS AND SALT AIR, REQUIRED LONG-TERM PROTECTION TO PREVENT CORROSION AND EXTEND ITS LIFESPAN. TRADITIONAL SOLUTIONS LIKE SILANE SEALERS OR URETHANE COATINGS, WHICH OFFER SHORT-TERM PROTECTION, WERE INADEQUATE. INSTEAD, THE TECHCRETE 2500 WATERPROOFING SYSTEM, UTILIZING EMSS TECHNOLOGY, WAS APPLIED TO THE ENTIRE 144,000 SQ. FT. STRUCTURE. THIS SYSTEM FORMS A DURABLE SUBSURFACE WATERPROOFING MEMBRANE, EFFECTIVELY PROTECTING THE CONCRETE AND STEEL REINFORCEMENT. THE TECHCRETE 2500 HAS SUCCESSFULLY SAFEGUARDED THE STRUCTURE FOR TWO DECADES AND CONTINUES TO PERFORM WELL.

UNIVERSITY OF PENNSYLVANIA -DOMAS

LOCATION

NORTH MYRTLE BEACH, SC

APPLICATION DATE

2006

PROJECT TYPE

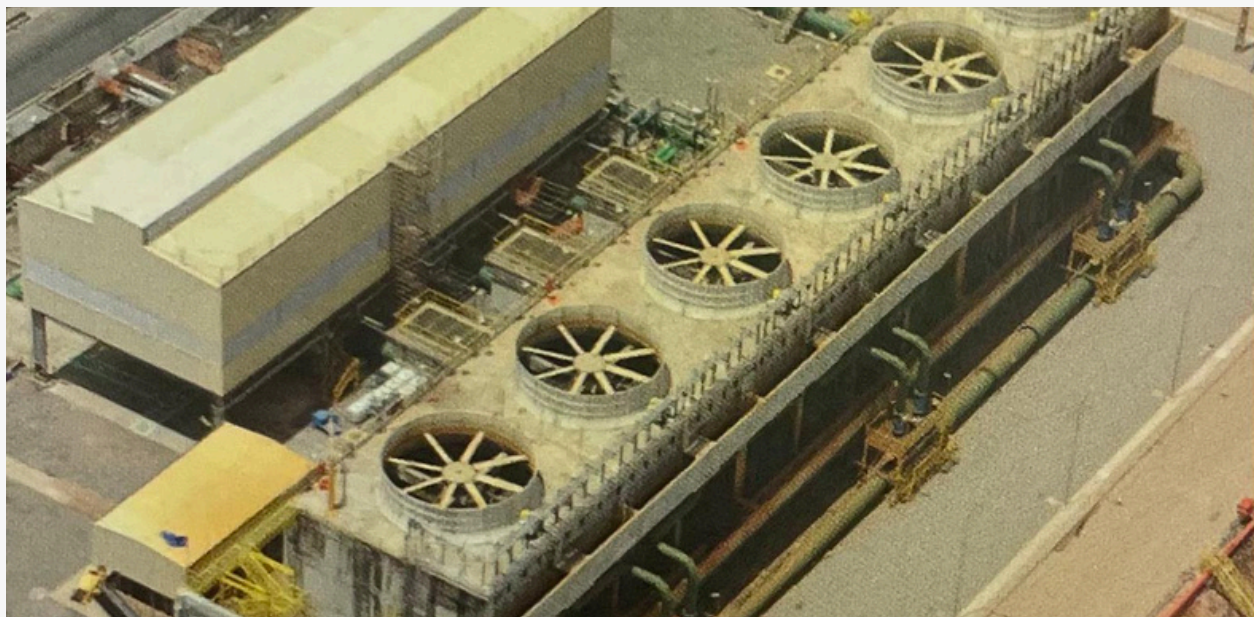
PARKING STRUCTURES /
RESIDENTIAL / EXISTING STRUCTURE

COVERAGE AREA

144.000 SQ. FT.

STATUS

NO LEAKS REPORTED



CASE STUDY

SUZANO PAPEL E CELULOSE

LOCATION

MUCURI - BA

APPLICATION DATE

2005

PROJECT TYPE

REINFORCED CONCRETE RESERVOIRS

COVERAGE AREA

5,000 M² (APPROXIMATELY 53,820 SQ FT)

STATUS

NO LEAKS REPORTED



CASE STUDY

THE NEW JERSEY DEPARTMENT OF TRANSPORTATION (NJDOT) EMPLOYED TECHCRETE 2500 TO WATERPROOF FIVE BRIDGES IN TRENTON, NJ, AND PROTECT THEM AGAINST CORROSION. THIS CUTTING-EDGE MATERIAL WAS SELECTED FOR ITS HIGH-PERFORMANCE CAPABILITIES IN SEALING CONCRETE SURFACES AND PREVENTING MOISTURE INFILTRATION. BY USING TECHCRETE 2500, NJDOT EFFECTIVELY SAFEGUARDED THE BRIDGES FROM WATER DAMAGE AND CORROSION, ENSURING THEIR STRUCTURAL INTEGRITY AND LONGEVITY. THIS PROACTIVE APPROACH NOT ONLY ENHANCED THE DURABILITY OF THE BRIDGES BUT ALSO MINIMIZED MAINTENANCE NEEDS AND EXTENDED THEIR SERVICE LIFE.

NEW JERSEY DOT - 4 BRIDGES

LOCATION

TRENTON, NJ

APPLICATION DATE

NOVEMBER 2005

PROJECT TYPE

BRIDGE

COVERAGE AREA

33,500 SQFT

STATUS

NO LEAKS REPORTED





CASE STUDY

TECHCRETE 2500 WAS APPLIED AT SUZANO PULP AND PAPER'S PLANT IN MUCURI, BAHIA, EFFECTIVELY WATERPROOFING CONCRETE SURFACES WITHIN SALT WATER TANKS, WHICH WAS CRUCIAL FOR RESISTING SALT INGRESS AND MAINTAINING STRUCTURAL INTEGRITY. THIS CHOICE REFLECTED SUZANO'S COMMITMENT TO SUSTAINABLE PRACTICES BY ENHANCING THE DURABILITY OF THEIR INFRASTRUCTURE AND MINIMIZING MAINTENANCE NEEDS. BY USING TECHCRETE 2500, SUZANO ENSURED THEIR FACILITIES COULD SAFELY AND EFFICIENTLY STORE SALT WATER, SUPPORTING THEIR GLOBAL LEADERSHIP IN THE PULP AND PAPER INDUSTRY.

SUZANO PULP AND PAPER'S PLANT

LOCATION

BRAZIL

APPLICATION DATE

2005

PROJECT TYPE

WATER HOLDING VESSEL

COVERAGE AREA

5,000M2

STATUS

NO LEAKS REPORTED



CASE STUDY

IN 2004, A NEW TERMINAL BUILDING AND PARKING STRUCTURE WERE CONSTRUCTED AT AN AIRPORT, FACING THE CHALLENGE OF PROTECTING THE CONCRETE PARKING STRUCTURE FROM HARSH WEATHER AND CORROSIVE SNOW AND ICE MELT. TRADITIONAL LIQUID TRAFFIC COATINGS, TYPICALLY USED IN SUCH CASES, WERE INADEQUATE DUE TO THEIR SHORT LIFESPAN AND SUSCEPTIBILITY TO DAMAGE. THE SOLUTION WAS TECHCRETE 2500, CHOSEN FOR ITS LONG-TERM PROTECTION. UNLIKE SURFACE COATINGS, TECHCRETE 2500 WORKS WITHIN THE CONCRETE MATRIX TO FORM A SUBSURFACE GEL THAT PREVENTS WATER AND CHEMICALS FROM PENETRATING AND CAUSING CORROSION. APPLIED IN JUST A FEW DAYS, TECHCRETE 2500 HAS SUCCESSFULLY PROVIDED DECADES OF PROTECTION FOR THE PARKING STRUCTURE.

HARRISBURG AIRPORT PARKING STRUCTURE

LOCATION

MIDDLETON, PA

APPLICATION DATE

2004

PROJECT TYPE

AIRPORTS / PARKING STRUCTURES /
NEW CONSTRUCTION

COVERAGE AREA

75,000 SQ. FT.

STATUS

NO LEAKS REPORTED



CASE STUDY

TECHCRETE 2500 WAS UTILIZED TO WATERPROOF THE FORT PITT BRIDGE AND REPAIR CRACKS IN ITS DECK AND RAMPS. THIS INNOVATIVE MATERIAL WAS CHOSEN FOR ITS SUPERIOR DURABILITY AND EFFECTIVENESS IN SEALING AND PROTECTING CONCRETE SURFACES. BY APPLYING TECHCRETE 2500, THE PROJECT TEAM ENSURED THAT THE BRIDGE'S STRUCTURAL INTEGRITY WAS MAINTAINED, PREVENTING WATER INGRESS THAT COULD LEAD TO FURTHER DETERIORATION. THIS ADVANCED SOLUTION NOT ONLY PROVIDED A LONG-LASTING WATERPROOF BARRIER BUT ALSO HELPED IN REPAIRING EXISTING CRACKS, ENHANCING THE OVERALL LIFESPAN AND SAFETY OF THE FORT PITT BRIDGE.

FORT PITT BRIDGE

LOCATION

PITTSBURGH, PA

APPLICATION DATE

MARCH AND JULY 2003

PROJECT TYPE

BRIDGE

COVERAGE AREA

60,000 SQFT

STATUS

NO LEAKS REPORTED





CASE STUDY

IN 2003, THE CITY OF WESTMINSTER SOUGHT TO PROVIDE LONG-TERM PROTECTION FOR THE NEWLY CONSTRUCTED LONGWELL PARKING RAMP, AIMING TO EXCEED ITS 50-YEAR DESIGN LIFE. TRADITIONAL LIQUID TRAFFIC COATINGS, WHICH LAST 5-10 YEARS, WERE INADEQUATE. INSTEAD, TECHCRETE 2500 WATERPROOFING SYSTEM WAS APPLIED IMMEDIATELY AFTER CONSTRUCTION. THIS SYSTEM FORMS A DURABLE SUBSURFACE GEL THAT PREVENTS WATER AND CHEMICALS FROM PENETRATING AND CAUSING CORROSION. APPLIED QUICKLY, TECHCRETE 2500 HAS SUCCESSFULLY PROTECTED THE PARKING STRUCTURE FOR DECADES.

LONGWELL PARKING RAMP

LOCATION

WESTMINSTER, MD

APPLICATION DATE

AUGUST 2003

PROJECT TYPE

PARKING STRUCTURES / NEW
CONSTRUCTION

COVERAGE AREA

56,000 SQ. FT.

STATUS

NO LEAKS REPORTED



CASE STUDY

TECHCRETE 2500 WATERPROOFING SYSTEM WAS APPLIED TO THE PRECAST TUNNEL, AS WELL AS THE CONCRETE RETAINING WALL. BY SELECTING THIS SYSTEM, THE RACEWAY ENSURED DECADES OF PROTECTION.

BRISTOL MOTOR SPEEDWAY

LOCATION

BRISTOL, TN, USA

APPLICATION DATE

JULY 2001

PROJECT TYPE

STADIUM TUNNEL

COVERAGE AREA

17,000+ SQFT

STATUS

NO LEAKS REPORTED





CASE STUDY

THIS PROJECT INVOLVED WATERPROOFING TWO SEPARATE PARKING DECKS AT THE GLOBAL IMPORTS BMW DEALERSHIP A FEW YEARS AFTER THE ORIGINAL FACILITY WAS CONSTRUCTED. THE PRIMARY CHALLENGE WAS THE TWO-LEVEL PARKING DECK THAT WAS CONSTRUCTED DIRECTLY OVER THE MAIN SHOWROOM FLOOR, WITH THE LOWER LEVEL ACTING AS THE FACILITIES ROOF.

GLOBAL IMPORTS BMW

LOCATION

ATLANTA, GA, USA

APPLICATION DATE

2000 & 2021

PROJECT TYPE

PARKING STRUCTURE

COVERAGE AREA

47,000+ SQFT

STATUS

NO LEAKS REPORTED





CASE STUDY

FOR THE PIEDMONT HOSPITAL PARKING STRUCTURES (2000-2001), THE CHALLENGE WAS FINDING A LONG-TERM WATERPROOFING SOLUTION. TRADITIONAL SEALERS AND COATINGS WERE INADEQUATE. TECHCRETE 2500 WAS CHOSEN FOR ITS SUPERIOR, LONG-LASTING PROTECTION. APPLIED AS A SPRAY, IT FORMS A SUBSURFACE WATERPROOFING GEL THAT PREVENTS WATER INGRESS AND PROTECTS STEEL REINFORCEMENT, WHILE BEING VAPOR PERMEABLE AND ECO-FRIENDLY. TECHCRETE 2500 HAS SUCCESSFULLY PROTECTED THE STRUCTURES FOR OVER TWO DECADES AND HELPED MAINTAIN THE CONSTRUCTION SCHEDULE.

PIEDMONT HOSPITAL

LOCATION

ATLANTA, GA, USA

APPLICATION DATE

2000 - 2001

PROJECT TYPE

PARKING GARAGE / NEW
CONSTRUCTION

COVERAGE AREA

163,500 SQ. FT.

STATUS

NO LEAKS REPORTED



CASE STUDY

HOSPITAL PARKING RAMP WATERPROOFED IN 1999. THE ENGINEER ON THE PROJECT (SEDKI & RUSS) OPTED TO USE OUR SPRAY-ON FORMULA INSTEAD OF THEIR NORMAL POLYURETHANE 'TRAFFICABLE MEMBRANE' BECAUSE THEY BELIEVE 'MEMBRANE' AND 'TRAFFIC' ARE NOT COMPATIBLE.

NORTHSIDE HOSPITAL PARKING RAMP

LOCATION

ATLANTA, GA, USA

APPLICATION DATE

1999

PROJECT TYPE

PARKING RAMP

COVERAGE AREA

50,000+ SQFT

STATUS

NO LEAKS REPORTED

TESTIMONIAL

"THOSE SYSTEMS ARE COMPLEX, TIME CONSUMING, EXPENSIVE AND NOT PARTICULARLY RELIABLE", (SEDKI & RUSS). THIS FORMULA IS EASILY SPRAYED-ON, FAST, RELIABLE, AND COST EFFICIENT.



CASE STUDY

OVER TWO DECADES AGO, A NATIONAL OWNER/DEVELOPER (GARDEN COMMUNITIES) BEGAN CONSTRUCTION OF A LARGE MULTI-FAMILY HOME PROJECT (BUILT IN THREE PHASES) ON THE NORTH SIDE OF SAN DIEGO, CA NAMED COSTA VERDE VILLAGE. IN ADDITION TO THE MULTIPLE STORY WOOD-FRAMED BUILDINGS, THE PROJECT INCLUDED OVER 300,000 SQUARE FEET OF CONCRETE SURFACE THAT WAS USED TO CONSTRUCT BALCONIES, WALKWAYS, AND POOL & PARKING DECKS THAT WOULD NEED TO BE PROTECTED. THE CHALLENGE WAS IN DETERMINING THE BEST WAY TO PROVIDE 'LONG-TERM' PROTECTION FOR THIS DEVELOPMENT, WHILE ALSO STAYING WITHIN BUDGET ... AND HELPING THE PROJECT STAY ON SCHEDULE.

COSTA VERDE VILLAGE

LOCATION

SAN DIEGO, CA

APPLICATION DATE

1999 - 2001

PROJECT TYPE

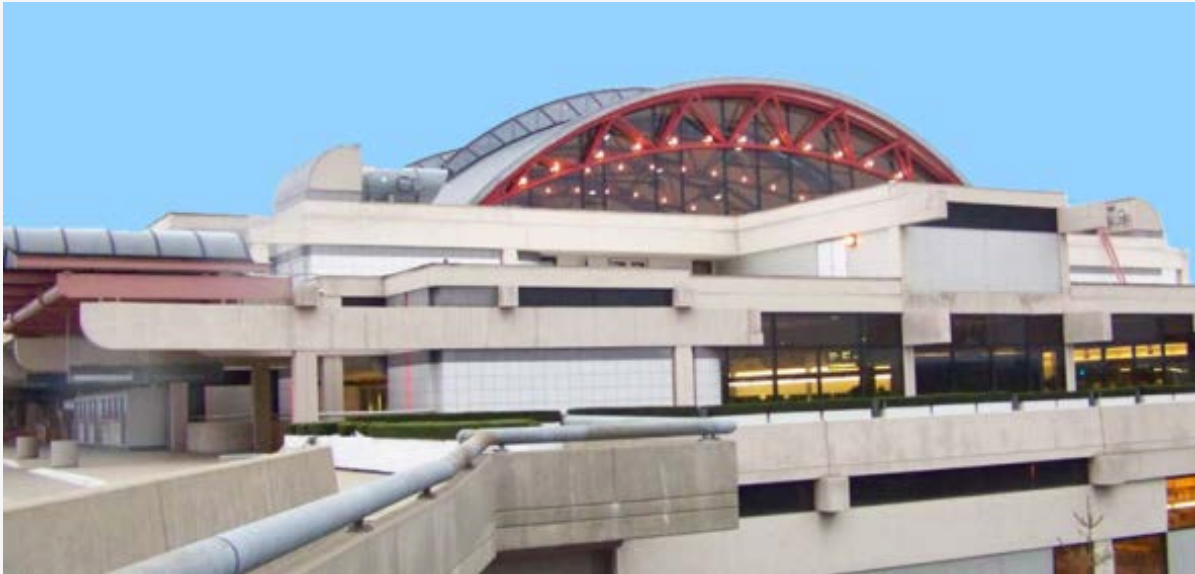
BALCONIES / PARKING STRUCTURES /
WALKWAYS / RESIDENTIAL / NEW
CONSTRUCTION

COVERAGE AREA

300,000 SQ. FT.

STATUS

NO LEAKS REPORTED



CASE STUDY

PITTSBURGH INTERNATIONAL AIRPORT NEEDED TO PROTECT NEARLY 1 MILLION SQ. FT. OF RUNWAY SURFACE FROM FREEZE/THAW DAMAGE AND DE-ICING SALTS. TRADITIONAL SOLUTIONS WERE INADEQUATE, OFFERING SHORT-TERM PROTECTION AND LENGTHY APPLICATION TIMES. THE TECHCRETE 2500 WATERPROOFING SYSTEM WAS CHOSEN FOR ITS ABILITY TO SEAL EXISTING AND FUTURE CRACKS AND ITS RAPID APPLICATION, WHICH TREATED THE RUNWAY IN JUST 72 HOURS. OVER THREE DECADES LATER, THE RUNWAY REMAINS IN EXCELLENT CONDITION, SHOWCASING THE LONG-TERM EFFECTIVENESS OF TECHCRETE 2500.

PITTSBURGH INTERNATIONAL AIRPORT

LOCATION

PITTSBURGH, PA

APPLICATION DATE

JUNE 1986

PROJECT TYPE

AIRPORT INFRASTRUCTURE

COVERAGE AREA

1 MILLION SQ. FT.

STATUS

NO LEAKS REPORTED





A CRACK APPROXIMATELY 1/4 OF AN INCH IN DIAMETER APPEARED ACROSS THE LENGTH OF THE WATER TANK. AFTER SANDBLASTING, THE CRACK WAS FILLED, AND AFTER THREE HOURS OF LETTING THE FORMULA SET, THE TANK WAS REFILLED. AFTER 72 HOURS THE WATER LEAK HAD COMPLETELY STOPPED. TOTAL DOWNTIME WAS APPROXIMATELY FIVE HOURS.

LAS VEGAS VALLEY WATER DISTRICT

LOCATION

LAS VEGAS, NV, USA

APPLICATION DATE

FEBRUARY 1976

PROJECT TYPE

WATER TUNNEL PUMP ROOM

COVERAGE AREA

NOT DOCUMENTED

STATUS

NO LEAKS REPORTED

