



This indoor atrium staircase at a prestigious eastern U.S. university was falling into disrepair. The old vinyl tiles were detaching from the substrate causing an eyesore as well as safety concerns for students and faculty alike.

The local ENECON Engineering Specialist was contacted to help find a fast and economical solution.

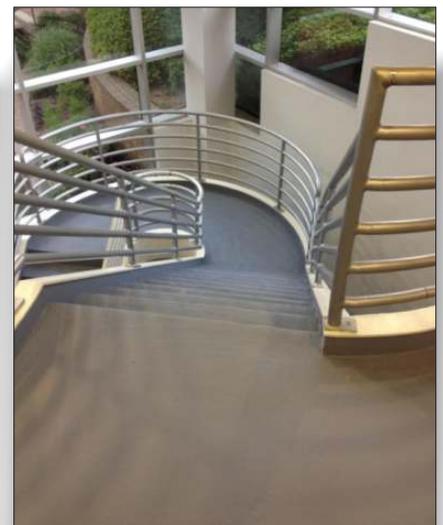
The vinyl tiles were manually removed from the staircase. The tile's

mastic was then mechanically removed from all areas and the metal step substrate was roughened.

ENECRETE DuraQuartz was used to repair any damaged areas followed by a two coat system of **ENECRETE DuraFill** with an aggregate broadcast for slip resistance in this high foot traffic area.

The university was very pleased with the results and future **Repair - Don't Replace** projects have already been scheduled.

University Repairs & Protects Interior Staircase With ENECRETE[®] DuraQuartz[®] & DuraFill[®]



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CHEMCLAD XC “Cures” Shower Stall Problems at New Jersey Hospital

Worn, pitted basins were unsightly & impossible to clean.



Heat lamps were used to accelerate the cure of the first layer of CHEMCLAD XC



A major university hospital in New Jersey had a problem with cast concrete shower stall basins that were originally installed.

After years of constant use, the basins had become worn and pitted and the original sealer finish was gone. The basins were nearly impossible to clean and unsightly as well. Patients were reluctant to use the showers. Since occupancy is as important to a hospital as to a hotel, each shower had to be completed in one day as rooms became available.

The solution was the application of CHEMCLAD XC, tinted to the color (blue) selected by the hospital staff to compliment the wall tile color.

After acid washing the basins to remove imbedded soil, soap residue and rust stains, the basins were dried using a fan.

A first layer of CHEMCLAD XC was applied by brush and roller. An anti-slip aggregate was broadcast into the uncured CHEMCLAD XC. This filled in pits in the concrete surface and improved the safety of the showers. After sweeping up the excess aggregate, a second layer of CHEMCLAD XC in the finished color was applied.



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Hospital “Prescribes” CHEMCLAD SC For Pressure Tank Coating



Badly rusted pressure tank and support legs. Project called for grit blasting tank and supports, then treating with CHEMCLAD SC (2 coats).



First coat of CHEMCLAD SC being roller-applied to tank and support surfaces.



View of tank and supports after final coat of CHEMCLAD SC was applied.

This project was completed in just one day.



DuraGrip System Provides Outstanding Slip Protection in Veterans Hospital Therapy Pool!



CHEMCLAD SC + fine aluminum oxide [Al₂O₃] aggregate was used to provide slip protection for patients as well as therapists. This entire project was completed in just one day.



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Problem: The original coating on this 2900 sq. ft. mechanical room floor was flaking and chipping. The concrete had also begun to crack and spall in several areas.

Solution: Any damaged areas were manually prepared, then repaired with ENECRETE DuraQuartz. Areas where the original coating was failing were scraped and cleaned with solvent where necessary. The entire floor was then abraded. ENECLAD SuperBond was applied to provide optimum adhesion. Finally, CHEMCLAD SC was applied with broadcast glass bead aggregate and then back-rolled to provide a slip-resistant surface.

Educational Institution Repairs & Protects Mechanical Room Floor with SuperBond, DuraQuartz & CHEMCLAD



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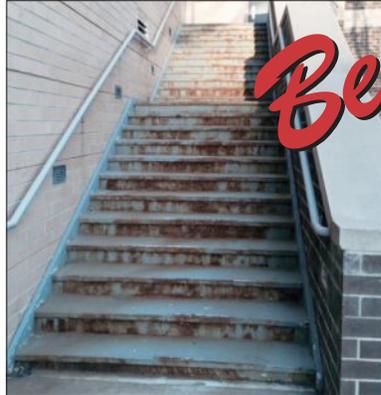
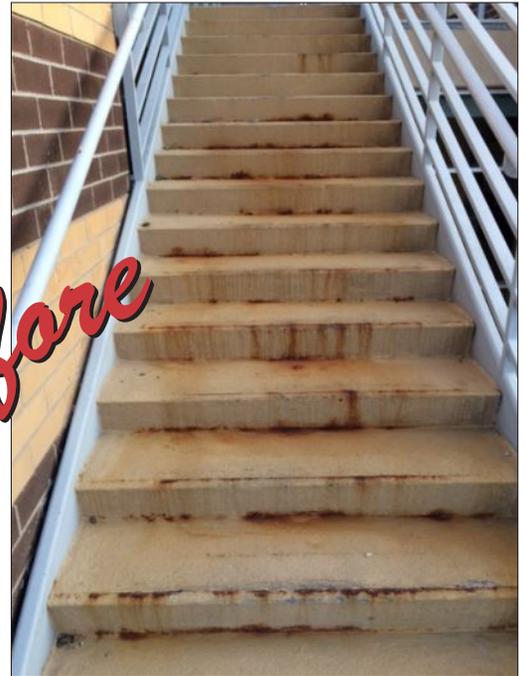
DuraFill® & CHEMCLAD® SC 'Heal' Crumbling, Unsafe Hospital Steps

These crumbling employee entrance/exit steps at a local Montreal hospital were unsightly and a potential safety hazard. The hospital called in the local ENECON® Distributor to find a fast and cost effective solution.

After manual preparation, the steps were repaired and rebuilt in certain areas with DuraFill® mixed with locally sourced quartz sand. CHEMCLAD® SC Gray and Safety Yellow were used as top coats while a quartz sand broadcast was back-rolled in to provide slip resistance.



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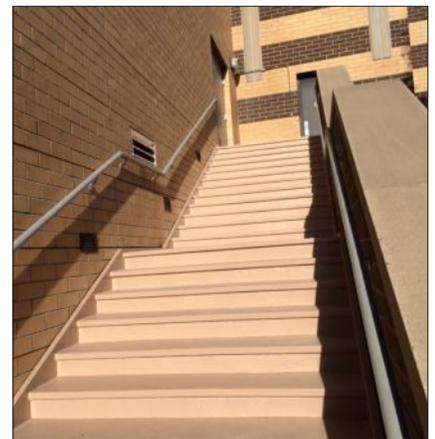
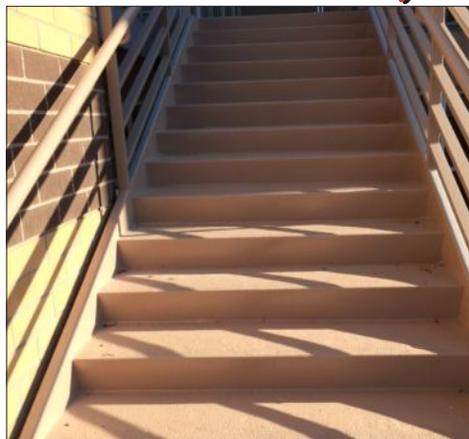
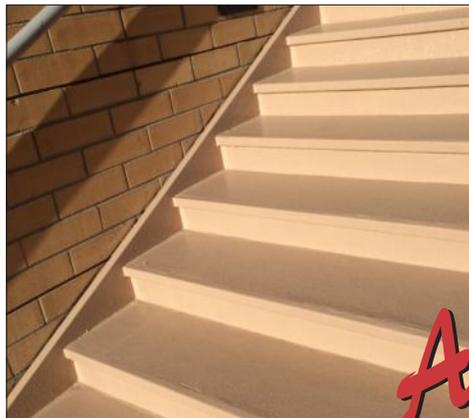


Staircases At Colorado High School Are Repaired & Protected With METALCLAD, CHEMCLAD & ENESEAL

Client: High School Campus
Location: Colorado, U.S.

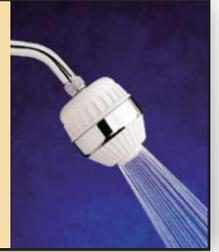
Problem: High traffic staircases were suffering from corroded steel tread nosings and damaged concrete treads. This caused both unsafe conditions for students, faculty and visitors as well as being very unsightly.

Solution: The stairs were manually prepared by abrasive blasting the steel nosings and concrete treads to remove any corrosion and old, failed coating systems. The nosings were given a first coat of CHEMCLAD SC and the concrete was primed with CHEMCLAD P4C. DurAlloy was then used to fill in any pitted areas. A top coat of CHEMCLAD SC Tan was applied and white aluminum oxide was back-rolled to provide slip-resistance. Finally, the staircase steel frames were cleaned and ENESEAL CR was applied to provide corrosion resistance.



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Leaking Shower Stalls? ENECRETE DuraQuartz Can Repair Them Better Than New -- Easily, Quickly & Economically!



At this world class university on Long Island, New York, the facilities engineers have experienced recurring problems in various shower stalls in the student dormitories. The terrazzo pans were leaking into the floors below.

Conventional replacement procedures, which included ripping out the old pans, installing new ones, and repairing the tiles, would be very costly and would shut down the showers for days.

The university's engineers decided to

repair and resurface the showers with ENECRETE DuraQuartz.

The procedure required just one DuraQuartz system per shower stall and only a few hours of downtime. The university was also able to use their own maintenance crew

(supervised by the local ENECON Fluid Flow Systems Specialist) which saved thousands of dollars.

The facilities engineers are delighted with the DuraQuartz repairs and intend to use it extensively throughout the university.



Leaking existing terrazzo shower pan. Note tape applied above the first course of tiles to neatly define the DuraQuartz repair.



After all the surfaces to be protected are primed, the ENECRETE DuraQuartz application begins.



A simple trowel is all that's needed to apply DuraQuartz.



The existing shower stall beautifully finished with DuraQuartz.

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ENECRETE DuraQuartz ... the 'Educated' Choice for Repairs to Stonework at Major University



An ENECON Fluid Flow Systems Specialist in the Mid-Atlantic Region supervised repairs to a classical staircase at a major university in Pennsylvania.

The Superintendent of Buildings & Grounds at the school was very concerned about the potential problems that conventional patching materials would have in adhering to the very old stone steps. He knew that

he had to find 'something very special' for this job.

Fortunately, the ENECON Engineer had conducted a technical seminar at the college to acquaint the engineering staff with the complete range of ENECON high performance polymer composite systems.

A call went out to the ENECON Engineer who immediately responded with a

recommendation to use ENECRETE DuraQuartz to repair these highly visible steps.

Supervising the institution's own, highly competent maintenance crew, The ENECON Engineer insured that all the cracks in the stonework were first repaired with the DuraQuartz and then a quarter-inch topping of DuraQuartz was applied over all the step surfaces.

The university's engineers are delighted with the results and have already utilized some of the other ENECON materials to solve other nagging repair problems at this prestigious university.

ENECRETE DuraQuartz will bond to just about any rigid surface, including brick, stonework, marble, metal—even glass!



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DuraQuartz & CHEMCLAD Used to Repair Tile Floor at Pennsylvania Hospital Kitchen



Portions of tiles where grout had failed were chipped away.



Some tiles were in such poor shape that they were completely removed.



DuraQuartz was used to repair the failed tile sections.



CHEMCLAD XC was applied over the DuraQuartz as well as over the first row of tiles in order to provide a uniform appearance. The entire project was completed in one night!

Veteran's Hospital Solves Slipping Problems with ENECRETE DuraQuartz



This large Veteran's Hospital in Texas had a slipping problem in some of their bathrooms. Water from the shower areas would run into the bathrooms creating slip hazards near the sinks and stalls. They needed a way to contain the water in the showers



but still permit wheelchair access to the shower areas when needed.

Furthermore, since these showers were used constantly, they could not shut them down for a prolonged period. Any solution would have to be quick, cost effective and odor-free.

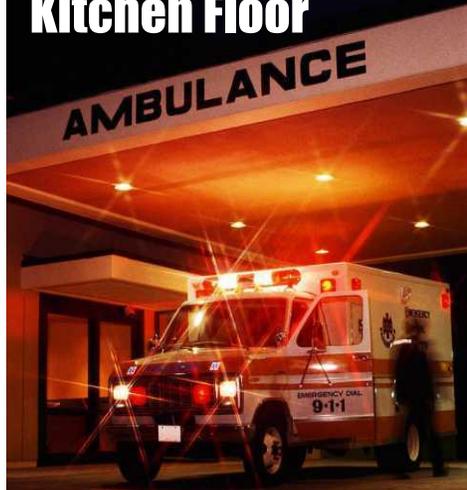
They called their local ENECON Regional Sales Director who recommended constructing shallow

containment burms (bumps) to keep the water from spilling into the bathroom areas. These burms are about 20 inches wide and about 2 inches high at the center. They were tapered to a "feather-edge" in order to permit wheelchairs to be easily rolled over them.

27 Units of DuraQuartz were used to treat 17 shower rooms to the complete satisfaction of the hospital maintenance staff.



DuraQuartz & CHEMCLAD XC Seal Leaks In Hospital Kitchen Floor



The drain trough near the soup kettles at this NJ hospital was surrounded by damaged quarry tiles. In addition, this area was a constant source of leaks to the area below.

Attempts to stop the leaks with caulk, mortar, and grout had failed. The kitchen staff was looking for a repair that would be permanent and which could be executed without shutting down the always busy kitchen. The use of odor free products was also important in allowing continued kitchen operations.

The solution was to replace the existing tiles with ENECRETE DuraQuartz. DuraQuartz would adhere to the underlying concrete floor, the stainless steel rim of the trough and to the surrounding tiles.

The first course of tile around the trough was carefully removed and the true source of the problem was revealed. The underlying thin set mortar and concrete was severely deteriorated by water and food acids.



After damaged materials were removed, DuraQuartz was applied to provide a smooth transition from the quarry tile floor to the rim of the trough.

For additional protection against food acids and to provide a hygienic surface,

two layers of CHEMCLAD XC, incorporating an anti-slip aggregate, were applied over the DuraQuartz.

The hospital staff was amazed and delighted that the ENECON crew accomplished the attractive and effective repair quickly and with no disruption to work in the kitchen.



Philadelphia School District Repairs & Protects High Traffic Loading Dock With ENECRETE



The condition of this busy loading dock was a safety concern to the maintenance engineers of a Philadelphia school district.

They were looking for a non-skid, durable coating that could perform in this high traffic area.

The local ENECON Field Engineering Specialist was consulted and it was recommended the holes on the loading dock first be repaired and leveled with DuraQuartz.

After the holes were successfully repaired, one coat of DuraFill was applied along with a single broadcast of a quartz and sand mixture. The final coat of DuraFill was then applied.

This loading dock is now a level, non-skid surface that no longer poses any threat as a potential tripping hazard. The school district engineers are very pleased with these results.



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ENECRETE & ENESEAL Bring Degrading Hospital Staircase 'Back to Life'

This prestigious medical center located in the Northeastern U.S. had a severe problem with their main entry steps. Replacing them was not an option as they were an important part of the hospital's classic 1950's style of architecture.

After determining that the steps were structurally sound and not a danger to the public, the hospital's engineers then needed to find a cost effective, viable repair and protection system. The local ENECON Engineering Specialist was contacted.

He recommended that a combination of *ENECRETE DuraQuartz* and *DuraFill* as well as *ENESEAL CR* be used over a 5 day period to repair and protect these steps.

After thoroughly cleaning the substrate, *DuraQuartz* was first used to rebuild the deteriorating stair structure.

ENESEAL CR was then used to protect the concrete from further corrosion as well as create a uniform look. *DuraFill* was then used on the top of the step surfaces to provide a slip-resistant safety surface.

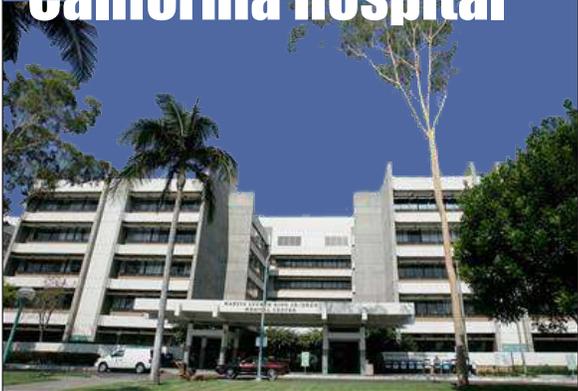
The hospital's engineers, as well as the administrators, were ecstatic with ENECON's ability to not only repair and protect the steps, but maintain the important architectural integrity of the building.



A Job Well Done!

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ENECRETE DuraQuartz and CHEMCLAD GP Repair and Protect Salt Pits at Southern California Hospital



Maintenance engineers at this county hospital in Southern California were looking for a fast and cost effective method to repair and protect concrete salt pits that were suffering from severe corrosion.

The local ENECON Field Engineering Specialist was contacted and he recommended rebuilding the damaged concrete edges with **DuraQuartz** and then protecting them with **CHEMCLAD GP** to prevent further corrosion damage.

The original scope of this project was only to include the concrete edges of the salt pits.

When the job was completed, the maintenance engineers were so pleased with the effectiveness of the DuraQuartz and CHEMCLAD, the scope of the job was expanded to include CHEMCLAD GP on the interior walls of the pits as well as on the exterior pit covers.

Many more projects have been completed at this hospital as a result of this routine DuraQuartz and CHEMCLAD application.



Hospital Entry Staircase Is 'Healed' With DuraQuartz & DuraFill



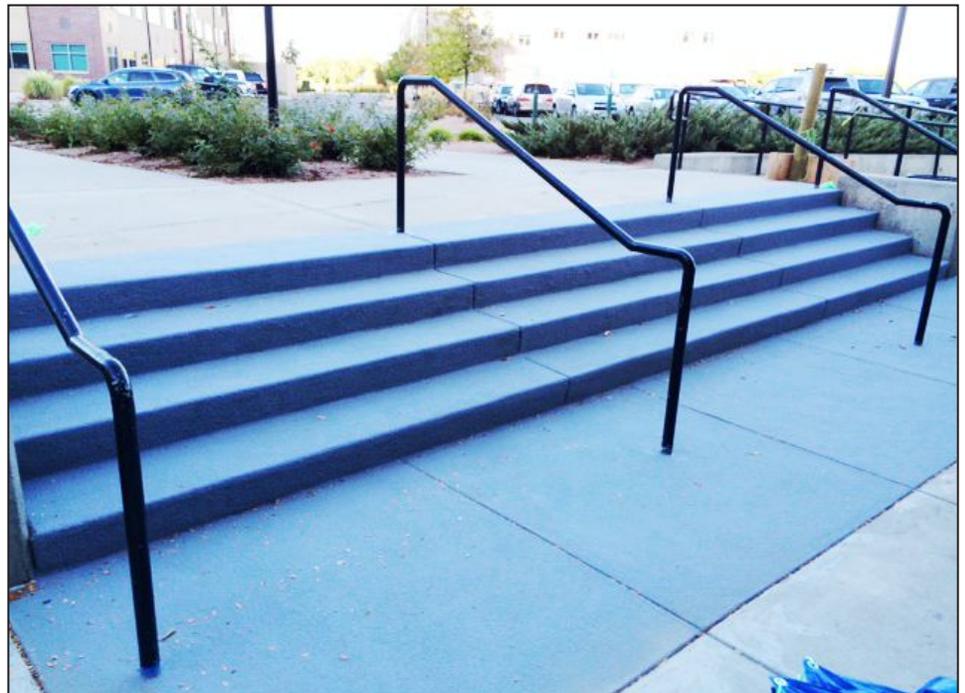
After only 12 years in use this staircase was cracked, crumbling and badly stained from the harsh elements and routine de-icing efforts during the harsh Colorado winters.

Stair noses were broken on several stairs and there were multiple areas of missing concrete.

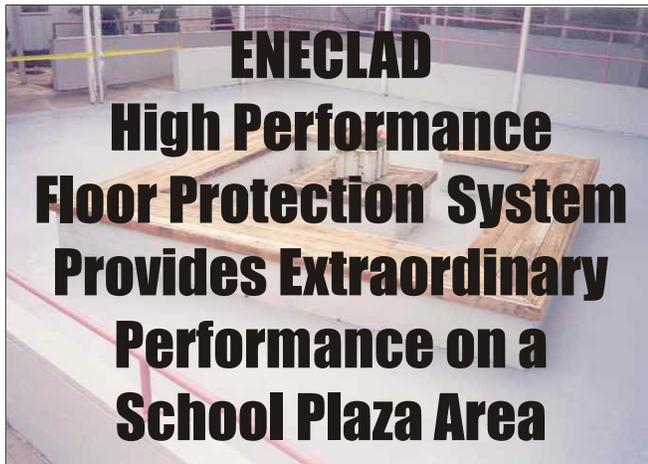
The stairs were first cleaned with lemon juice to remove the staining. Then DuraQuartz was used to repair the stair noses and voids in the concrete. Seams and expansion joints were taped and three coats of a Durafill broadcast system were rolled out.

This application remedied the public safety hazard but it was an aesthetic improvement referred to as "better than 100%" by the client. This staircase is now an area of pride.

Close to \$15,000 was saved by using this ENECON method over a complete staircase replacement.



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ENECON North East has been steadily increasing its floor protection business. Whether it's secondary chemical containment areas at power stations, or machinery room floors in high rise office buildings, the ENECON North East Engineering Team has helped their clients solve some very critical problems.

ENECLAD FPS is now providing the opportunity to dramatically expand their business in the floor protection market.

The application shown here is typical of the outstanding results that can be achieved with ENECLAD systems: A local school on Long Island had an extreme problem with its center plaza courtyard. The concrete was broken, cracked and severely spalled as seen here.

ENECLAD FPS was selected by the facilities'

engineer to repair and protect the concrete plaza. Larger cracks were first repaired with **ENECRETE DuraQuartz** and then **ENECLAD Self Priming Screed** was applied to level the damaged concrete slab and fill in any hair-line cracks.

ENECLAD FPS was then applied to provide a seamless, highly durable floor. Non-skid aggregates were incorporated into the FPS to provide for a safety non-slip surface in this outdoor area.

ENECLAD systems are easy to apply and very cost effective. They are the modern maintenance engineer's first choice for extreme floor protection in extreme environments.





This tile floor located inside a New Jersey hospital's dish washing area had begun to deteriorate. Grout was wearing away, missing or had become porous allowing leaks from spilled water into the floor below.

The hospital's engineers contacted the local ENECON Field Engineering Specialist to help find a solution.

After manually preparing the tile floor by grinding, **ENECLAD SuperBond** was first used as a primer/adhesion promoter.

A finish coat of **ENECLAD FPS** in 'quarry tile red' was then applied to the floor as well as one course of tiles up the walls.

Glass beads were then back-rolled into the FPS before it cured to act as a non-skid treatment.

This project was completed on-time and under budget much to the delight of the hospital's facilities engineers.



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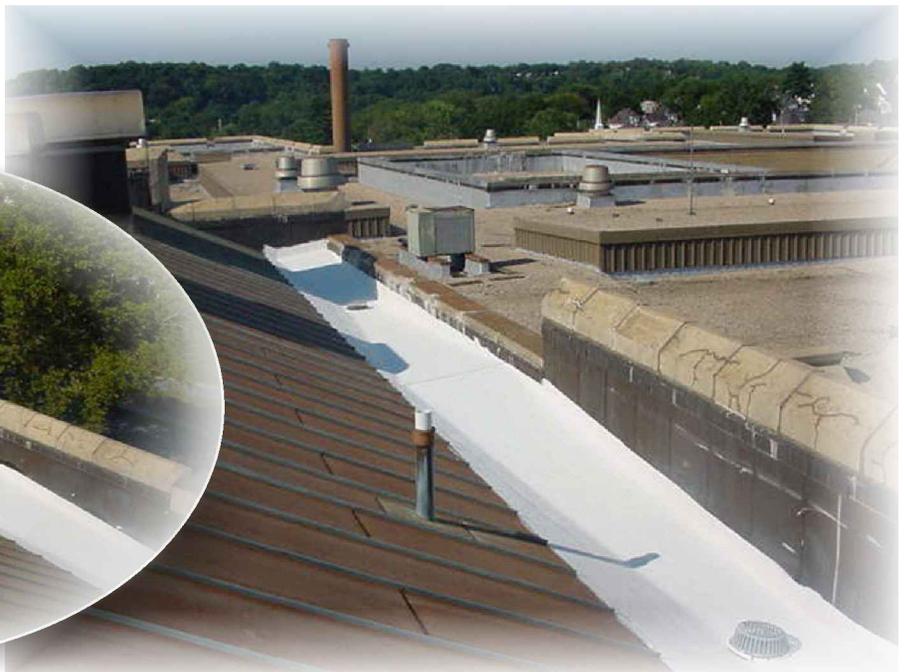
Middle School in Pennsylvania Solves Gutter Leaks With ENESEAL

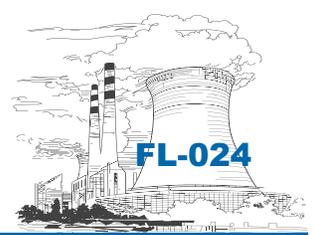


The copper gutters on this gymnasium's roof were leaking onto the wood floors below. The school needed a quick, yet cost-effective repair solution. The repair material had to exhibit out-standing adhesion, elongation and UV resistance.

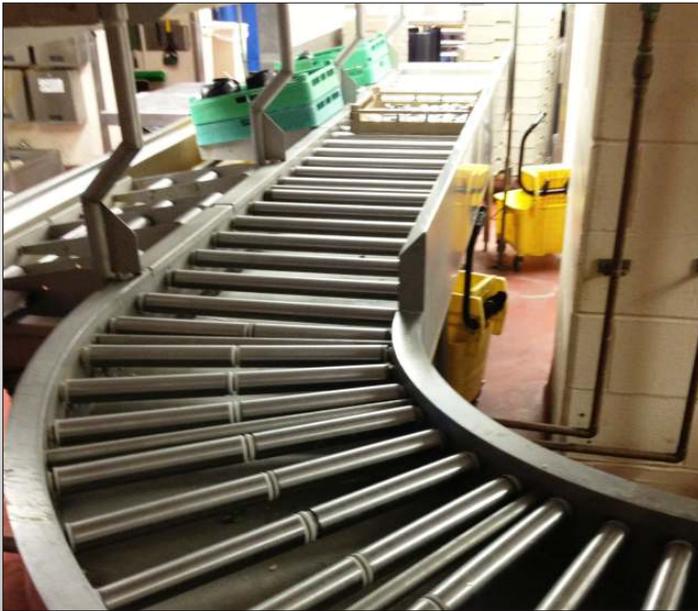
Matt Goldberg, ENECON's Sales Director for the Mid Atlantic Region, was called in to provide his recommendations. Matt immediately recommended ENESEAL. Since the school already had used ENESEAL HR successfully on other problem roof areas in the past, they readily agreed to use it again for this application.

Carl Durham, ENECON's National Projects Manager, quickly mobilized one of his crews and the leaking gutters were repaired and sealed with the ENESEAL system in just a few days.





Pennsylvania Hospital Stops Leaking Dishwashing Tray Seams in their Kitchen with FLEXICLAD ER



ENECON has solved many 'standard' problems at this Pennsylvania hospital - repairs to cooling towers, chillers, floors, pipes, etc.

The hospital's maintenance engineers contacted the local ENECON Fluid Flow Systems Specialist with what they considered an 'unusual' problem. The seams of their stainless steel dishwashing tray line were leaking. This was causing slip/fall accidents, constant clean-up and generally unsanitary conditions.

They had tried to fix the leaks numerous times with

caulks, but with no success. It was quickly agreed that FLEXICALD ER would be used to solve this problem.

The area's were manually prepared with sandpaper, then cleaned thoroughly. FLEXICLAD ER was applied, with no primer needed. The area was ready to be put back into action the next morning with no odor and no downtime.

The hospital maintenance staff was pleased with the results and ENECON continues to be the hospital's 'problem solver'.



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A World Renown University Selects CeramAlloy to Solve Severe Corrosion Problem on Super Magnet!

This world class University's Magnetic Laboratory provides some of the world's most powerful and versatile electromagnets for a variety of research needs.

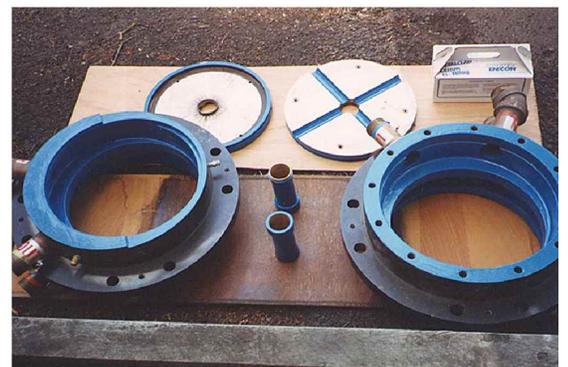
This particular multipurpose electromagnet is one of the latest designs from the Laboratory. At 17 Tesla (that's 170,000 gauss), it can generate the highest electromagnetic field for a radial magnet in the world!

To cool the magnet, 1500 G.P.M. of distilled water is pumped through at 200 P.S.I.. 40,000 amps at 230 volts are used to power the unit. Unfortunately, these severe operating conditions have made previous coating attempts temporary at best.

University engineers have ordered additional stocks of ENECON repair and protection materials for on-going erosion and corrosion problems as these arise.

The university's scientists are always searching for state-of-the-art materials which can keep pace with the demands of their innovative equipment designs. They were, therefore, extraordinarily pleased to "discover" the ENECON high performance repair and protection materials which have now been used to solve a wide variety of problems at the university.

CeramAlloy has also been used by university engineers to protect the aluminum access tubes for the Laboratory Hybrid 11(30 Tesla) electromagnet. Their Hybrid III unit is the world record holder for a continuous field magnet at 33.5 Tesla!



Texas Hospital Complex Solves its Air Conditioning Problems With ENECON CeramAlloy

When you are a facilities engineer responsible for operations in a major hospital complex in South Texas, the one thing you have to be sure of is that your air conditioning systems are functioning properly.

That's the reason that this Corpus Christi hospital turned to their local ENECON Fluid Flow Systems Specialist for advice.

Erosion and Corrosion damage was evident on the chillers of their

air conditioning system and they wanted the best material to repair the damage and provide long-term protection from future damage.

The ENECON engineer suggested the cost

effective solution...CeramAlloy CP+ and CL+ to rebuild any damaged metal and then resurface the end covers as well as the tube sheets on the chiller.



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Chilean Hospital Pumps Brought 'Back to Life' with CeramAlloy[®] and CHEMCLAD[®]



This hard water pump at a hospital in Chile was only averaging a few months in service before maintenance would have to be performed to repair deep erosion / corrosion damage.



After thoroughly grit blasting, all deeply damaged areas were repaired with CeramAlloy CP+AC. Two coats of CeramAlloy CL+AC were then applied to provide erosion / corrosion resistance.

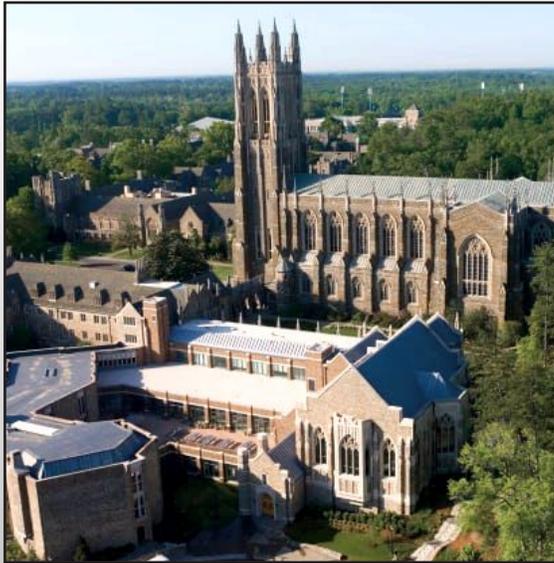


1. The pump casing before being refurbished.

2. The pump casing after grit blasting.

3. The pump casing was coated with CHEMCLAD GP which protects from future erosion / corrosion.

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Prestigious University Protects 3,700 Ton Chillers with CeramAlloy

This prestigious university owns one of the largest air conditioning plants in North Carolina, currently consisting of eleven 3,700 ton chillers.

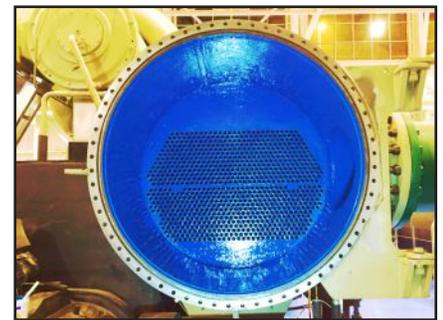
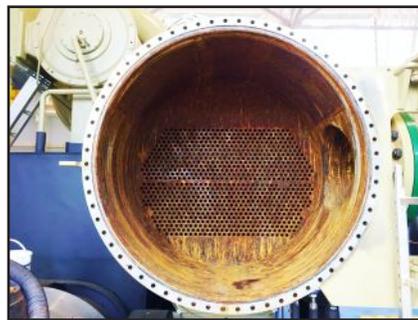
The maintenance engineers had difficulty finding a company that was capable of protecting these chillers using an acceptable repair procedure with the strong attention to detail demanded by the university.

The local ENECON distributor was contacted and was asked to coat an existing chiller so the application process could be observed.

The chillers were dried out when the ENECON team arrived. After grit blasting the surface, a two coat CeramAlloy CL+AC system was applied under the watchful eyes of the maintenance engineers.

After completing the chiller to the satisfaction of the university's maintenance team, the local ENECON distributor was subsequently asked to coat two more chillers.

Based on these outstanding results, the university has committed to coating the remaining chillers as temperature and budgets allow.



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