

The ESI Newsletter

Elastomer Specialties, Inc.

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Application Spotlight: **NUKOTE/ESI Completes A 91,800 SF Polyurea Application Project In Shanghai!**

NUKOTE/ESI's certified contractor and installer, Shanghai Langang Anticorrosion (SLA), has just completed a major polyurea installation at the Jiaxing Power Plant about an hour south of the city of Shanghai. SLA applicators, with NUKOTE/ESI technicians assisting, worked hard together to coat over 10,200 square meters of concrete including nine large tank interiors and ten large primary containment basins. **ElastoGard ARC** was the polyurea of choice due to its excellent physical properties and ability to perform well on concrete. SLA's success in closing this project, and other projects of similar size, is due to their tireless dedication to educating the end users, in their case, power production and distribution executives, the benefit of using high-quality, pure polyurea. A large part of this education process includes working with local and national design institutes to establish NUKOTE/ESI **ElastoGard ARC** as a national

standard for use in the industry. Their work and dedication has paid off, and with NUKOTE/ESI support, they have already closed a number of other projects with dozens more in the works for next year. As China's power production and distribution industry continues to grow at break-neck speeds, Shanghai Langang Anticorrosion and NUKOTE/ESI Coating Systems are prepared to meet all of their coating needs. *On behalf of ESI's marketing department, we want to thank Chris Bean of NCS for providing us with this excellent product application bulletin.*



Jiaxing Power Plant South of Shanghai, China



Jiaxing Power Plant South of Shanghai, China

ESI Introduces The "New" Condor Extreme, Low-Pressure Heated Pump System For Polyurea Spray!

Developed specifically for low-pressure spraying, plural component Polyurea coatings at low temperatures, the latest model from Elastomer Specialties comes with heated & insulated lines and 7-gallon stainless steel tanks, which are designed to maintain a constant temperature range of 125° F to 150° F. Still light weight, this new model is available with either pneumatic or semi-pneumatic tires & hose lengths up to 75 feet. For additional information on the "New" Condor Extreme, visit our website at www.elastomer.com or give us a call at 1-800-786-4244.



Low-Pressure Polyurea Spray Coating Project in Downtown New York!

Advanced Polymer Systems, Inc. located in Manhattan, New York, is Elastomer Specialties, Inc.'s newest certified low-pressure spray contractor. Recently, APS completed a \$70,000.00, 21,000 S.F. contract located in the heart of New York for American Manhasset. The project consisted of 13,000 S.F. of hall space and 8,000 S.F. of walls. One of the major problems facing APS was the limited time allotted to complete the project. Another serious concern was the air ventilation system. The company had to erect an elaborate tube in which to extract all

the polyurea over spay. Once this extraction tube was in place the APS crew was able to proceed with all the surface preparation. The primer used on the project was ESI's PoxyPrime H₂O, a water based epoxy primer with *NO ODOR*. According to Mario Colletti, the company's owner, the primer was sprayed onto the walls and floor areas with an airless sprayer and was ready for recoat in less than 1 hour. The customer, Costagna Realty, who manages the complex was impressed with how fast the application of the coating system was done. Using a Condor



Application of PolySpar LP1

Deluxe Pump by ESI, the aromatic floor coating, ElastoGard ARC and the colorfast polyaspartic wall coating, PolySpar LP-1 was installed, 4 days ahead of schedule. Once completed the management company praised ASP for the excellent job and materials used.

ESI Visits Shanghai & Japan

Departing the U.S. on October 19th to visit ESI dealers in both Shanghai, China and Osaka, Japan, proved to be an exciting and educational experience. The first stop on the 12-day trip was Shanghai where Chris Bean of NUKOTE Coating Systems awaited my arrival. The next 7 days consisted of visiting application sites, meeting with certified NUKOTE installers, and learning about the culture of the country in general. In a short time I learned that without prior knowledge of the language, it would be almost impossible to conduct any form of business in a foreign country. Fortunately Mr. Bean spoke Mandarin Chinese fluently. The trip finished up with a grand look at the new manufacturing facility where ESI will be formulating several of its polyurea products, in

conjunction with the new ESI/NUKOTE business alliance, all of which is designed to expedite production and distribution of product through out the Asian market. The final leg of the trip began on October 25th when I departed to Osaka, Japan to meet up with ESI's dealer, Chuo Systems. Here I was met at the airport by a Japanese interpreter and escorted by bus to another flight where the owner of the company, Mr. Hiroshi Yamamura and his director of R & D, Mr. Motohei Ichikawa, along with a second interpreter awaited my arrival. For the next 5 days we drove approximately 1200 kilometers across Japan, from Nagasaki to Kyoto, to visit many installations & customers.

I had the opportunity during my last day in Japan to visit a well known castle and Buddhist temple in Himeje, which I enjoyed thor-



Left to Right: Motohei Ichikawa of Chuo, Neil Moon of ESI, and Hiroshi Yamamura of Chuo.

oughly. The overall trip proved to be an invaluable experience & I can't say enough about the hospitality of CHUO & NUKOTE.

On behalf of ESI, I want to personally thank both NUKOTE & CHUO Systems for a memorable experience & the opportunity to visit their countries.

Neil Moon, Director of Marketing, ESI

Technical Corner

Q. What kind of resistance does polyurea provide against chlorine?

A. Aromatic polyurea shows good chemical resistance against chlorine (sodium hypochlorite). However, it will have tendency to "bleach-out" if the concentrations of chlorine is too strong. Furthermore, aromatic polyurea will surface degrade in UV light. ESI recommends either

ElastoGard AL (an aliphatic polyurea) or one of our polyaspartic coatings. Aliphatic polyurea shows excellent chlorine resistance and provides a much more UV-Stable and colorfast coating in halogenated applications.

Q. Why does polyurea pinhole when spraying over polystyrene foam?

A. Polyurea is usually sprayed at temperatures of 160°F.

This high temperature immediately releases air and moisture that is present on the foam's surface and this attempts to rise through the coating resulting in pinholes. This phenomenon can sometimes be eliminated by using a very fast gelling polyurea that will not allow the air/moisture to escape. In some cases, a "flash coat" can be applied to allow the air/moisture to escape. After the surface has cooled, the remaining coating can be applied.

SEALTEC, Elastomer Specialties Newest International Dealer For The Country Of Israel!

SEALTEC Construction Co. Ltd. has recently joined with ESI to become the company's exclusive dealer for Israel, Turkey, & Cyprus. With over 30 years of experience in the protective coating and flooring industry, the company's owner and CEO, Mr. Israel Paycher says the new technology & delivery systems offered by Elastomer Specialties, is rapidly opening doors into the commercial, governmental, and national defense sector of the coatings industry in his territory. SEALTEC has also received potable water approval in Israel with ESI's ElastoGard ARC and looks to

have additional approvals in Cyprus and Turkey later this year. The company employs approximately 25-40 employees, depending on the time of year, and will be stocking ESI materials & equipment in their distribution warehouse, located between Haifa and Tel Aviv. ESI is extremely excited about the future of polyurea in the Middle East and with Mr. Paycher's past experience, ability to speak 5 foreign languages fluently, his company's excellent reputation and professionalism, ESI looks forward to a long lasting and profitable relationship. Welcome aboard Israel!

Additional information on SEALTEC can be obtained from ESI's web site by clicking on International Dealers.



Mr. Israel Paycher - SEALTEC Construction Co., Ltd., Beit Hananya, Israel

EcoSpar Opens New Doors For Residential Market!

Elastomer Specialties' rapid curing roll down polyaspartic coating, EcoSpar, has found a new niche market in the upper end housing industry for sealing and coating garage floors. Unlike current epoxy floor systems which take time to install and even longer to cure, EcoSpar is unique in the sense that once the surface has been properly prepared, primed and coated it can be opened to both foot and vehicle traffic within just 90 minutes. The general building contractor that specified the "New EcoSpar" system on this

\$550,000.00 home, located Southeast of Tulsa, was amazed at how simple the system was to install. Design Mark Builders' 2-man crew pressure washed the entire 650 SF of garage floor area, installed ESI's Poxylite H2O primer (225 S.F. per gallon) and applied two coats of EcoSpar, Medium Gray in less than 5 hours. Extremely tough,



durable, easy to install and repair, the New EcoSpar concrete protective coating system is ideal for the rapid growing housing industry, says Bob Hancock, the owner of Design Mark Builders.

Aquaticus Mammal Medicine Tank At OKC Zoo Gets Polyurea Face Lift!

The Oklahoma City Zoo recently contracted Evans Industrial Coatings Co. of Russellville, AR to renovate the medicine treatment tank at their aquatic center. The existing epoxy coating which was installed only 3 years prior had begun to develop serious surface cracks. Because this tank was used to treat sick sea mammals, the Zoo's maintenance director determined the tank to be unsafe and contacted several manufacturers to find a permanent coating solution. After several weeks of meetings Elastomer Specialties



Finished picture of the medicine treatment tank at the OKC Zoo.

was finally chosen to provide the coating system to repair the 1800 S.F. tank. The installation specification called for sand blasting in order to remove the failed epoxy coating then according to the ESI specification, AnvilDeck primer was installed, followed by ElastoGard ARC, a pure aromatic polyurea and top coated with PolySpar HP, a color stable polyaspartic. From start to finish the project took only 4 days to complete. The success of this application has inspired the Zoo's maintenance director to move ahead with additional tank and standard repairs for the 2004 season.

Thanks to Evans Industrial Coatings for their suburb workmanship on this project and providing us with pictures and information!

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Golden Floor Preparation Tackles -26°F Concrete Floor Repair Project!

Merchants Distributing, Inc., located in Hickory, North Carolina had serious problems with damaged concrete joints, doorway thresholds, and spalls, and was in dire straits for a rapid solution to the problem. After several weeks of product evaluation and numerous phone calls by the maintenance department, two manufacturers were contacted, with great aspirations of a quick remedy. The maintenance department stipulated that each product manufacturer had to send in a certified installer, in order to demonstrate the worth of their system. Only Elastomer Specialties ES-2350 Sub-Zero floor repair polyurea passed the test. The certified contractor for ESI, Golden Floor Preparation out of Golden, Colorado, specializes in freezer and chiller floor repairs on a Nation Wide basis. They put on an excellent installation demonstration for the facility owner and was awarded the contract. Completed, the project took a 4-man crew approximately 3 weeks. Included in the job profile was 2,000 lf of freezer floor repairs, at constant temperatures of -18°F to -26°F and 3,000 lf of chiller area that averaged 35°F to 45°F. According to Rick Harris, the company's founder and owner, working 10 to 12 hour shifts in the sub-zero temperatures proved to be quite challenging in both keeping the equipment operational as well as coordinating & maintaining a tight schedule for the owner. With over



Above pictures: Concrete surface prep in -26°F temperature.



Picture of joint after it has been prepped



Picture after installation of ES-2350 polyurea

25 years of experience in specialty coatings and epoxy floor installations, Mr. Harris states that sub-zero floor repairs are the most difficult and demanding on contractors equipment and personnel. Golden Floor Preparation, Inc. offers it's contracting services nation wide with several mobile rigs available at all times.

We want to take the time to thank Rick Harris for providing us with this unique

repair bulletin.

For additional information on Sub-Zero floor repairs, steel shot blasting or epoxy coating applications, contact:

Golden Floor Preparation, Inc.

1-303-378-3892