Perspectives

25 years of Protectosil®

Evonik. Power to create.

EVONIK INDUSTRIES

Patrik Wohlhauser
member of the Evonik Industries AG
Executive Board

A lot can happen in 25 years: Global maps change, technologies conquer the world, and new inventions are developed to enrich our lives. In our fast-paced world, 25 years of success in the market is a remarkable performance by a specialty chemical product. Protectosil® has been protecting buildings all over the world for 25 years.

We are proud to have such a successful, sustainable, and future-oriented product in our portfolio and thank our customers for their support and loyalty over the past 25 years.

Editorial

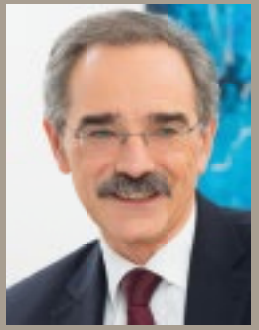
Come travel the world with us. Let us show you cultural attractions, bridges, monuments and modern buildings in a way you have never seen them before.

We will open up new perspectives – guaranteed!

Evonik made a contribution to each of the 25 buildings presented on the pages of this book. Protectosil® shields the Sydney Opera House, ensures trouble-free coal transport in South Africa, protects bridges in Switzerland and China from wind and weather, and makes parking garages and shopping centers in the U.S. and Germany resistant to contamination and snow. At the same time, it helps maintain historically protected art and culture monuments around the world, including the Baha'i temple in India, the Beylerbeyi Palace Gate in Istanbul, or the Moyland Castle in Germany.

Especially in the case of bridges and roads, which must be maintained with public funds, the use of Protectosil® speaks for the foresight of architects and engineers, who prefer prevention over cost-intensive restorations or repairs at a later date. Protectosil® products extend the life cycle of our public infrastructure.

We invite you to journey through 25 years of Protectosil®. Protectosil® opens up perspectives.



Dr. Johannes Ohmer
Head of the Inorganic Materials Business Unit

1989 – Cathedral in Thann

Alsace, France

Building

The Collégiale Saint-Thiébaut in the Alsatian town of Thann is a masterpiece of Gothic architecture. The portal of the western facade, with a height of 18 meters and a width of 8 meters, shows 150 sculpted scenes from the Old and New Testament. The sculptures include some 500 figures.

Protection with Protectosil®

Just as humans have to protect their skin against sunlight, wind, and rain, the 600-year-old sculptures needed extensive treatment with Protectosil® 300 to tell their stories for many generations to come.

News that went around the world

+++ The fall of the Berlin Wall marked the end of the Cold War +++ Millions surf the World Wide Web +++

1989 – Cathedral in Thann

Alsace, France

Detach here

Protectosil has opened up perspectives for 25 years.
www.protectosil.com | 1989 – Cathedral in Thann, Alsace, France

Protectosil®

1989 – Cathedral in Thann

Alsace, France

1990 – Princeton University

New Jersey, USA

Building

World-renowned Princeton is the fourth-oldest university of the United States. Prominent Princeton graduates include President Woodrow Wilson, the author F. Scott Fitzgerald, Amazon founder Jeff Bezos, and First Lady Michelle Obama.

Protection with Protectosil®

The Princeton University campus houses a number of beautiful neo-Gothic buildings. Nassau Hall, a sandstone building dating back to 1756, was treated with Protectosil® CHEM-TRETE® 40 VOC to provide full protection for the structure that houses classes for future architects, mechanical engineers, and chemists.

News that went around the world

+++ Unification Treaty between the Federal Republic of Germany and the German Democratic Republic sealed to restore German unity +++ Iraqi invasion of Kuwait led to the start of the second Gulf War +++ Nelson Mandela released from prison: End of apartheid in South Africa +++

1990 – Princeton University

New Jersey, USA

Detach here

Protectosil has opened up perspectives for 25 years.
www.protectosil.com I 1990 – Princeton University, New Jersey, USA

1990 – Princeton University

New Jersey, USA

1991 – Sydney Opera House

Sydney, Australia

Building

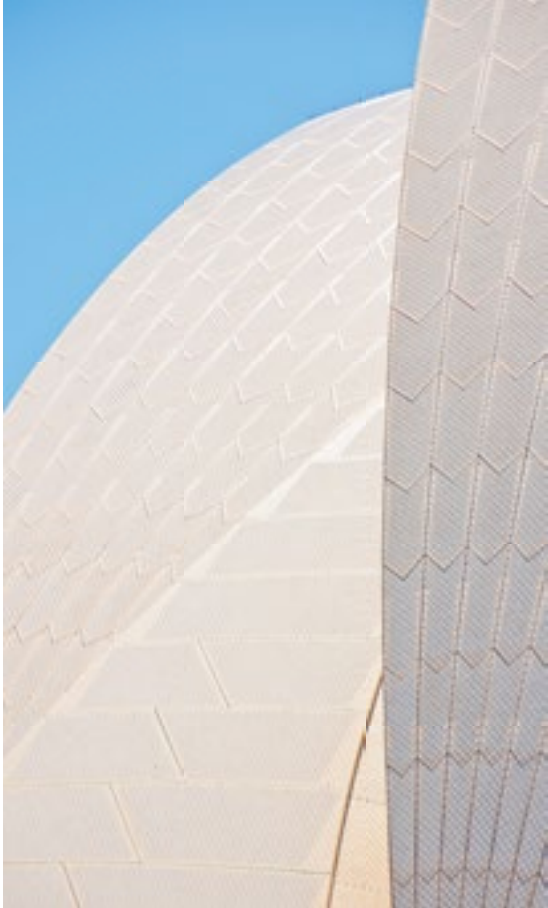
The Sydney Opera House, with a length of 183 meters and a width of 118 meters, is situated within a park on Sydney's harbor. The 67-meter-high roof, redesigned more than a dozen times over the course of six years because of its complex geometry, is covered with over a million white ceramic tiles and houses different theaters.

Protection with Protectosil®

As a penetrating hydrophobic agent for concrete, brick masonry, and ceramic tiles, Protectosil® BSM 400 reliably protects the structure against moisture rising from the sea and improves the interior climate for the approximately four million annual visitors.

News that went around the world

+++ August coup in Moscow +++ Dissolution of the Soviet Union +++ Former Soviet republics gained full sovereignty +++ Mikhail Gorbachev stepped down as the last president of the Soviet Union +++ Boris Yeltsin was elected president of Russia +++ Yugoslavia broke apart: Slovenia, Croatia, Macedonia as well as Bosnia and Herzegovina declared their independence. Bitter civil wars and military conflicts ensued +++



1991 – Sydney Opera House

Sydney, Australia

Detach here

Protectosil has opened up perspectives for 25 years.
www.protectosil.com I 1991 – Opera House in Sydney, Australia

Protectosil®

1991 – Sydney Opera House

Sydney, Australia

1992 – Railroad sleepers

South Africa

Project

Among numerous other natural resources, South Africa has extensive coal deposits. Heavily loaded railroad cars roll over kilometers of railroad tracks from the coal mines to the ports, where the energy resource is loaded and shipped all over the world.

Protection with Protectosil®

The enormous strain and contact with water have over the years led to heavy cracks and some weakening in the concrete ties underneath the tracks. The treatment with Protectosil® BHN prevented further water ingress and stopped the expansion of the alkaline silica reaction.

News that went around the world

+++ Democratic candidate Bill Clinton won the Presidential elections, defeating the Republican George H. W. Bush +++ The first text message was sent by mobile phone +++

1992 – Railroad sleepers

South Africa

Detach here

Protectosil has opened up perspectives for 25 years.
www.protectosil.com I 1992 – Railroad sleepers, South Africa

Protectosil®

1992 – Railroad sleepers

South Africa

1993 – Container terminal Zeebrugge

Bruges, Belgium

Project

The same event that created a boom in one of Europe's most important trade cities would be a disaster for today's Bruges-Zeebrugge port. In 1134, a storm surge tore a shipping channel into the Zwin Bay, creating direct access to the North Sea from the city of Bruges, which is located a few kilometers inland. Today, the Bruges-Zeebrugge port is one of the most modern in Europe.

Protection with Protectosil®

Modern technology effectively protects people, land, and buildings from the sea. Studies by the University of Leuven at the quay wall of the container terminal showed that its life expectancy could be extended by more than 100 years with Protectosil® BHN treatment, an argument that was not lost on the operators.

News that went around the world

+++ The European Community established a duty-free internal market +++ The European Economic Community is expanded by a common foreign and security policy +++ Germany introduced 5-digit postal codes +++ Czechoslovakia was dissolved +++ The Czech Republic and Slovakia were formed +++

1993 – Container terminal Zeebrugge

Bruges, Belgium

Detach here

Protectosil has opened up perspectives for 25 years.

www.protectosil.com | 1993 – Container terminal Zeebrugge, Bruges, Belgium

Protectosil®

1993 – Container terminal Zeebrugge

Bruges, Belgium

1994 – Attinghausen Bridge

Attinghausen, Uri, Switzerland

Building

Bridges span obstacles such as deep gorges, scenic valleys, or raging waters. The bridge in the Swiss town of Attinghausen crosses the Reuss, Switzerland's fourth-largest river after the Rhine, the Aare, and the Rhone, with a length of 159 km.

Protection with Protectosil®

By choosing to protect their bridge with Protectosil® BHN, the Swiss proved that their quality awareness goes far beyond clock manufacturing and chocolate production. The decision not only enhanced the town's environment, but also the way that leads to it.

News that went around the world

+++ The leader of the Palestine Liberation Organization (PLO) Yasser Arafat, Israel's Prime Minister Yitzhak Rabin, and Foreign Minister Shimon Peres received the Nobel Peace Prize +++ Nelson Mandela became South Africa's first black president +++ The passenger ferry Estonia sunk en route from Tallinn to Stockholm. Hundreds of people drowned. +++

Photos: Günter Loos

1994 – Attinghausen Bridge

Attinghausen, Uri, Schweiz

Detach here

Protectosil has opened up perspectives for 25 years.
www.protectosil.com | 1994 – Attinghausen Bridge, Uri, Switzerland

Protectosil®

Photos: Günter Loos

1994 – Attinghausen Bridge

Attinghausen, Uri, Schweiz

1995 – Storebelt Bridge

Storebælt, Denmark

Building

A bridge-and-tunnel structure crosses the Great Belt to connect the Danish islands of Funen and Zealand and to provide an easy travel route from Germany to Sweden. With a length of 2,694 meters and a main span of 1,624 meters, the eastern bridge is Europe's longest suspension bridge and the world's third longest.

Protection with Protectosil®

With very few exceptions, the bridge is open 24 hours a day, year-round.The wind, weather, and traffic conditions both within and high above the sea create some special challenges for operation and maintenance. The application of Protectosil® BHN protects the structure against water-soluble contaminants and water to keep the traffic rolling, day in and day out.

News that went around the world

+++ Bosnian-Serbian soldiers conquered the UN safe zone of Srebrenica (Bosnia and Herzegovina) and killed 8,000 mostly Muslim men and boys +++ The mediation efforts of various countries resulted in the Dayton Peace Agreement +++ Artist couple Christo and Jeanne-Claude covered the Berlin Reichstag Building with aluminized polypropylene fabric +++

1995 – Storebelt Bridge

Storebælt, Denmark

Detach here

Protectosil has opened up perspectives for 25 years.
www.protectosil.com | 1995 – Storebelt Bridge Storebaelt, Denmark

Protectosil®

1995 – Storebelt Bridge

Storebælt, Denmark

1996 – Monroe County Parking Garage

Monroe County, Indiana, USA

Building

Parking garages all over the world have to contend with water, dirt, and salt coming in with vehicles, which causes corrosion and affects durability. Corrosion rate measurements of the stabilizing reinforcement structure in the Monroe County parking garage documented the diagnosis of heavy active corrosion.

Protection with Protectosil®

Following years of repeated repair cycles and upon recommendation from a consulting engineer, the owner decided to include a surface applied corrosion inhibitor, Protectosil® CIT, as part of the repair strategy. Protectosil® CIT provides multi-functional protection to reinforced concrete, penetrating to and chemically bonding with reinforcing steel while also reacting within concrete matrix to impart hydrophobicity. Corrosion monitoring over 11 years provides proof that the treatment was successful.

News that went around the world

+++ First democratic elections held in the Palestinian Autonomous Areas +++ PLO leader Yasser Arafat was elected president of the Palestinian National Council +++ Deutsche Telekom made German business history with the largest initial public offering of its T-share +++ Dolly the sheep was the first cloned mammal +++

1996 – Monroe County Parking Garage

Monroe County, Indiana, USA

Detach here

Protectosil has opened up perspectives for 25 years.

www.protectosil.com | 1996 – Monroe County Parking Garage, Indiana, USA

Protectosil®

1996 – Monroe County Parking Garage

Monroe County, Indiana, USA

1997 – “Christo de los Faroles”

Córdoba, Andalusia, Spain

Project

The local crucifix sculpture in Cordoba is popularly known as the “Christ of the Lanterns.” Designed in 1794 by Juan Navarro León, it is located on the Plaza de los Capuchinos in the Andalusian city of Córdoba, surrounded by a fence beset with lanterns.

Protection with Protectosil®

The fence was an attempt by the city council to prevent graffiti taggers from leaving their marks on the 200-year old contemporary witness that is under historic preservation. However, a second skin made of Protectosil® ANTIGRAFFITI, which not only repels creative art, but also rain and dirt, has been much more effective.

News that went around the world

+++ Diana, Princess of Wales and ex-wife of the heir to the British throne, Prince Charles, was killed in a car crash +++ The international climate conference in Kyoto, Japan made a commitment to reduce greenhouse gas emissions +++

1997 – “Christo de los Faroles”

Córdoba, Andalusia, Spain

Detach here

Protectosil has opened up perspectives for 25 years.
www.protectosil.com | 1997 – "Christo de los Faroles," Córdoba, Andalusia, Spain

Protectosil®

1997 – “Christo de los Faroles”

Córdoba, Andalusia, Spain

1998 – Utah state highways

Utah, USA

Project

The U.S. state of Utah covers an area of 219,887 square kilometers, extending 435 kilometers from east to west and 565 kilometers from north to south. Such an area needs to be well connected, which is evident by some 4,891,831 kilometers of state highways.

Protection with Protectosil®

Years of road salt, water, and subsequent freeze-thaw cycles had caused significant damage to major portions of the highways in the form of potholes, surface chipping and scaling. After treatment of Protectosil® AQUA-TRETE® 40, roads were reopened within 24 hours.

News that went around the world

+++ After 16 years as German Chancellor, Helmut Kohl lost the parliamentary elections to his challenger Gerhard Schröder, which created the first red-green coalition at national level +++ The movie "Titanic" broke all records at the box office and the Oscars +++ The British Crown colony of Hong Kong was transferred to the People's Republic of China after 156 years +++

1998 – Utah state highways

Utah, USA

Detach here

Protectosil has opened up perspectives for 25 years.
www.protectosil.com | 1998 – Utah state highways, USA

Protectosil®

1998 – Utah state highways

Utah, USA

1999 – Bahá'í Temple

New Delhi, India

Building

The Lotus Temple in the Indian capital of New Delhi is the most recently constructed of seven Bahá'í houses of worship worldwide. Its name refers to the lotus flower-like shape of the building.

Protection with Protectosil®

The effect of treating the structure with Protectosil® BSM 400 is a good match for the shape of the temple: water runs off in beads, taking dirt particles accumulated on the surface with it.

News that went around the world

+++ Slobodan Milosevic, President of Yugoslavia, was accused of genocide by a war crimes tribunal +++ In a shooting spree, two students at Columbine High School in Littleton in the U.S. State of Colorado killed twelve students and one teacher. In response, film director Michael Moore made a satirical documentary entitled "Bowling for Columbine," which won an Oscar in 2003 +++ German writer Günter Grass received the Nobel Prize for Literature +++

1999 – Bahá'í Temple

New Delhi, India

Detach here

Protectosil has opened up perspectives for 25 years.

www.protectosil.com | 1999 – Bahá'í Temple, New Delhi, India

Protectosil®

1999 – Bahá'í Temple

New Delhi, India

2000 – Ala Moana Shopping Center

Honolulu, Hawaii, USA

Project

The Ala Moana Center in the Hawaiian capital of Honolulu is the world's largest open-air shopping mall. Its 290 shops and one of the world's largest food courts attract over 40 million visitors every year.

Protection with Protectosil®

When the property management invested in six new parking levels, Protectosil® BHN was the treatment of choice. Thanks to the product's quick drying properties, the parking areas were closed for only a short time. This hydrophobic treatment deeply penetrates the concrete pores to provide effective protection against scaling, dirt accumulation and stains.

News that went around the world

+++ Global fears of computer chaos triggered by Y2K proved unfounded +++ Vladimir Putin took over from Boris Yeltsin as Russia's new president +++ The Summer Olympic Games in Sydney came with a whole set of superlatives: Never before had there been so many athletes, so many participating countries, and so many sports +++ The stories about the apprentice magician Harry Potter were the discovery on the international book market +++

2000 – Ala Moana Shopping Center

Honolulu, Hawaii, USA

Detach here

Protectosil has opened up perspectives for 25 years.
www.protectosil.com | 2000 – Ala Moana Shopping Center
Honolulu, Hawaii, USA

Protectosil®

2000 – Ala Moana Shopping Center

Honolulu, Hawaii, USA

2001 – Commodore Barry Bridge

New Jersey and Pennsylvania, USA

Building

Every day, some 35,000 vehicles cross the Commodore Barry Bridge over the Delaware River. It is the longest cantilever bridge in the USA, connecting Bridgeport, New Jersey with Chester, Pennsylvania.

Protection with Protectosil®

Because of cracks in the road surface, salt, water and dirt were able to reach the reinforcement steel of the bridge. To stop the advancing corrosion, some 108 square yards of the bridge roadway were treated with Protectosil® CIT, a water-vapor permeable and therefore breathable protective layer, during renovation work.

News that went around the world

+++ The events of September 11, 2001 rocked the world: Attacks by the Al-Qaeda terrorist network on the New York World Trade Center and the Pentagon in Washington as well as a foiled attack that ended with a plane crash in Pennsylvania claimed over 3,000 lives +++ U.S. President George W. Bush announced an all-out global war on terrorism and its perpetrators +++

Photo: Wikimedia Commons

2001 – Commodore Barry Bridge

New Jersey and Pennsylvania, USA

Detach here

Protectosil has opened up perspectives for 25 years.

www.protectosil.com | 2001 – Commodore Barry Bridge, USA

Protectosil®

Photo: Wikimedia Commons

2001 – Commodore Barry Bridge

New Jersey and Pennsylvania, USA

2002 – Theme parks

Florida, USA

Project

Sunny Florida is not just known for its breathtaking beaches, but also for the world famous chain of amusement parks. Every year, some 400,000 adventure seekers visit the complex of currently four theme parks on an area of some 15,000 hectares, a must see for all fans of Mickey Mouse and friends.

Protection with Protectosil®

The spilling of coffee, soda, ketchup, mustard and other condiments around food courts and pool areas do not cause a concern. These areas, which have previously been treated with Protectosil® BHN PLUS, are easily cleaned without the use of harsh chemicals saving on cost and labor to clean.

News that went around the world

+++ The euro was introduced as the single currency in twelve EU member states +++ Torrential rain caused flooding in Central Europe and flood disasters in Asia +++ Swedish children's author Astrid Lindgren died +++

2002 – Theme parks

Florida, USA

Detach here

Protectosil has opened up perspectives for 25 years.

www.protectosil.com | 2002 Theme parks, Florida, USA

Protectosil®

2002 – Theme parks

Florida, USA

2003 – Louvre

Paris, France

Building

The Louvre is one of the world's most popular museum with close to ten million visitors annually. It houses approximately 380,000 works of art, which may perhaps soon by joined by the works of a well-known graffiti artist.

Protection with Protectosil®

It was only a question of time for the equestrian statue in the inner courtyard of the Louvre and the sandstone benches carved into the exterior wall to become the canvas of a creative spirit. To prevent such artistic expressions, these structures were treated with Protectosil® ANTIGRAFFITI, which allows for the repeated and easy removal of unwanted "artwork" without residue.

News that went around the world

+++ The armed forces of the United States and Great Britain seized Bagdad and put an end to the war in Iraq by toppling the Iraqi dictator Saddam Hussein +++ The anticyclone Michaela caused ten thousand deaths and economic damage estimated at US$ 13 billion +++

2003 – Louvre

Paris, France

Detach here

Protectosil has opened up perspectives for 25 years.

www.protectosil.com | 2003 – Louvre, Paris, France

Protectosil®

2003 – Louvre

Paris, France

2004 – Holocaust Memorial

Berlin, Germany

Project

This Memorial covers an area of 19,000 square meters in the center of Berlin. Together with the underground "Place of Information," the prominent field of stelae designed by the U.S. architect Peter Eisenman forms Germany's most important holocaust memorial. Close to half a million people have visited the site every year since its opening in 2005.

Protection with Protectosil®

The initiative to build the memorial came from local citizens in the late 1980s and the German Parliament resolved to make it a reality in June 1999. 2,711 concrete stelae are arranged in a grid pattern on the gently and irregularly sloping terrain. The surfaces of the stelae were treated with Protectosil® ANTIGRAFFITI in 2004 to prevent any desecration of the memorial.

News that went around the world

+++ Student Mark Zuckerberg established the company Facebook while attending Harvard University +++ An earthquake in the Indian Ocean was the third-strongest earthquake ever recorded and triggered a series of devastating tsunamis on the coasts of the Indian Ocean +++

2004 – Holocaust Memorial

Berlin, Germany

Detach here

Protectosil has opened up perspectives for 25 years.

www.protectosil.com | 2004 – Holocaust Memorial, Berlin, Germany

Protectosil®

2004 – Holocaust Memorial

Berlin, Germany

2005 – Metropolitan Store

Cologne, North-Rhine Westphalia, Germany

Building

The shape of the award-winning Metropolitan Store in Cologne was intended to resemble a ship, but people in Cologne call it the Whale. The building comprises 14,400 square meters of sales floors. The 4,900-square-meter glass facade consists of 6,800 individual glass panes and 66 laminated timbers made of Siberian larch wood.

Protection with Protectosil®

Special buildings deserve special protection. Renzo Piano's Metropolitan Store in Cologne, located on one of the most dense routes of the city, cannot be harmed by dust or exhaust particles thanks to Protectosil® ANTIGRAFFITI. Graffiti artists can no longer enjoy the 2,200-square-meter Portuguese limestone surface.

News that went around the world

+++ The papacy of John Paul II ended on his death +++ German cardinal Joseph Ratzinger was appointed as his successor, Pope Benedict XVI +++ Angela Merkel was elected as the German chancellor +++ Hurricane Katrina was one of the most devastating natural disasters in the history of the United States +++

2005 – Metropolitan Store

Cologne, North-Rhine Westphalia, Germany

Detach here

Protectosil has opened up perspectives for 25 years.
www.protectosil.com | 2005 – Metropolitan Store, Cologne, Germany

Protectosil®

2005 – Metropolitan Store

Cologne, North-Rhine Westphalia, Germany

2006 – Beylerbeyi Palace Gate

Istanbul, Turkey

Building

Sultan Abdülaziz commissioned the construction of Beylerbeyi Palace between 1861 and 1865 on the Asian side under the first Bosporus Bridge. The white marble palace served as a summer residence and a place to entertain visiting heads of state.

Protection with Protectosil®

The marble pillars of the palace gate had been deteriorating for some time. The historic site underwent rejuvenation treatment with Protectosil® SC 60 to form uniquely beautiful scenery with the many blossoming magnolia trees in the palace garden for many years to come.

News that went around the world

+++ Iraq's former dictator Saddam Hussein was sentenced to death +++ In Liberia, Ellen Johnson-Sirleaf is elected as the first female present in the history of the African continent +++ Galápagos giant turtle Harriet died at the Australia Zoo in Queensland +++

2006 – Beylerbeyi Palace Gate

Istanbul, Turkey

Detach here

Protectosil has opened up perspectives for 25 years.

www.protectosil.com | 2006 – Beylerbeyi Paace Gate in Istanbul, Turkey

Protectosil®

2006 – Beylerbeyi Palace Gate

Istanbul, Turkey

2007 – Transamerica Pyramid Center

San Francisco, California, USA

Building

280 yards and 48 floors high, the Transamerica Pyramid is a prominent landmark and the tallest building of the San Francisco skyline. The building features two wing-like components for elevators and emergency escapes for earthquake protection.

Protection with Protectosil®

Cleaning the windows takes several days. Accordingly, taping the windows and window frames prior to applying a surface protection agent on the facade would have cost considerable time and money. Because Protectosil® CHEM-TRETE® BSM 400 does not leave any residue on glass or metal, operators decided in favor of treating the building efficiently with Protectosil®.

News that went around the world

+++ The Apple iPhone revolutionized the mobile phone market +++ In France, Nicolas Sarkozy won the presidential election, defeating Ségolène Royal +++ Tony Blair handed over the key to No. 10 Downing Street in London to the new Prime Minister, Gordon Brown. +++ Ban Ki-moon took over the position of United Nations Secretary-General from Kofi Annan +++ Evonik Industries AG was founded +++

2007 – Transamerica Pyramid Center

San Francisco, California, USA

Detach here

Protectosil has opened up perspectives for 25 years.

www.protectosil.com | Transamerica Pyramid Center,
San Francisco, California, USA

2007 – Transamerica Pyramid Center

San Francisco, California, USA

2008 – Budapest Castle

Budapest, Hungary

Building

Budapest's best-known building sits on Castle Hill high above the Hungarian capital. After the Castle's destruction in WWII, historians and architects worked to reconstruct the country's largest building in its original 18th century dimensions.

Protection with Protectosil®

In spite of its location high above the metropolis of Budapest, the Buda Castle is not immune to the moisture rising up from the Danube valley below. The sandstone structure was therefore given a coating of Protectosil® WS 630, a water-based protective product that also repels dirt. Thanks to the application of Protectosil® SC CONCENTRATE on the walls in the interior courtyard of the castle, cleaning expenses have been significantly reduced.

News that went around the world

+++ Barack Obama was the first African American to be elected President of the United States +++ Raúl Castro, brother of the ill Fidel Castro, was elected by the Cuban parliament as both head of state and head of government +++ For the first time in history, more people lived in cities than in the country +++

2008 – Budapest Castle

Budapest, Hungary

Detach here

Protectosil has opened up perspectives for 25 years.

www.protectosil.com | 2008 – Budapest Castle, Hungary

Protectosil®

2008 – Budapest Castle

Budapest, Hungary

2009 – Hangzhou Bay Bridge

Zhejiang Province, People's Republic of China

Building

Prior to the construction of the 36-kilometer Hangzhou Bay Bridge, it took a day to travel from the Chinese metropolis of Shanghai to the city of Ningbo on the southern shore of the bay. Since then, the trip between the cities has been cut down to two hours.

Protection with Protectosil®

Even mighty constructions such as the Hangzhou Bay Bridge would be fully exposed to the forces of nature in the long term, were it not for timely protective treatment. The 7,000 bridge piers firmly embedded in the bottom of the sea, with a height of 70 meters each, were therefore treated with 40,000 liters of Protectosil® CIT. The specialty chemical deeply penetrates the concrete to effectively repel water and harmful chemicals.

News that went around the world

+++ The Jamaican sprinter Usain Bolt ran the 100-meter race in 9.58 seconds at the World Championships in Athletics in Berlin +++ The King of Pop, Michael Jackson, was found dead after an opioid overdose +++ At 828 meters, Burj Khalifa in Dubai became the tallest building in the world +++ The movie "Avatar" unleashed a new 3D trend in theaters +++

2009 – Hangzhou Bay Bridge

Zhejiang Province, People's Republic of China

Detach here

Protectosil has opened up perspectives for 25 years.

www.protectosil.com | 2009 – Hangzhou Bay Bridge, Zhejiang Province, People's Republic of China

Protectosil®

2009 – Hangzhou Bay Bridge

Zhejiang Province, People's Republic of China

2010 – Moyland Castle

Bedburg-Hau, North-Rhine Westphalia, Germany

Building

Built originally in medieval times, the castle was rebuilt in Baroque style in the 17th century and then modernized in neo-Gothic style in the 19th century.

Protection with Protectosil®

The ravages of time were taking their toll on the brick structure. Rain directly fell on the brickwork and was able to penetrate the unprotected bricks and joints. The tower walls and the world's largest collection of the work of artist Joseph Beuys is now reliably protected against moisture, thanks to Protectosil® BSM 400.

News that went around the world

+++ 69 days after an accident in the Chilean San José mine, 33 miners were rescued +++ The ash cloud from the eruption of the Icelandic volcano Eyjafjallajökull paralyzed European air traffic +++ Agricultural Bank of China set a record as the largest IPO of all time with a sum of US$ 22.12 billion +++

2010 – Moyland Castle

Bedburg-Hau, North-Rhine Westphalia, Germany

Detach here

Protectosil has opened up perspectives for 25 years.

www.protectosil.com | 2010 – Moyland Castle
Bedburg-Hau, North-Rhine Westphalia, Germany

Protectosil®

2010 – Moyland Castle

Bedburg-Hau, North-Rhine Westphalia, Germany

2011 – Darmstadt State Theater

Darmstadt, Hessia, Germany

Building

Darmstadt's long theater tradition started in the 17th century, when knightly tournaments and musical theater were part of the courtly ceremonies of the landgraves. Today, the State Theater in Darmstadt employs over 500 people on and behind the stage. Every season features approximately forty productions.

Protection with Protectosil®

Since its general overhaul, the theater with its noticeable portal and bright marble facade highlighted with shiny brass panels has been visible from far away. Protectosil® ANTIGRAFFITI ends all graffiti vandalism, since the paints do not adhere to the treated surfaces.

News that went around the world

+++ With the birth of Danica May Camacho in the Philippines, the world's population topped the seven billion mark for the first time +++ A major earthquake off the east coast of Japan generated a tsunami leading to the worst nuclear disaster since Chernobyl in the Fukushima I nuclear power plant +++ Prince William married commoner Catherine "Kate" Middleton at Westminster Abbey in London +++ Brazil elected its first-ever female president, Dilma Rousseff +++

Photo: Staatstheater Darmstadt / Barbara Aumüller

2011 – Darmstadt State Theater

Darmstadt, Hessia, Germany

Detach here

Protectosil has opened up perspectives for 25 years.

www.protectosil.com | 2011 – Darmstadt State Theater, Hessia, Germany

Protectosil®

Photo: Staatstheater Darmstadt / Barbara Aumüller

2011 – Darmstadt State Theater

Darmstadt, Hessia, Germany

2012 – Wesel City Hall

North-Rhine Westphalia, Germany

Building

The city hall of Wesel on the Rhine was built by its free citizenry in 1455. A resident group interested in the preservation of the historic city hall initiated the reconstruction of the facade built with Udelfang sandstone. The building is considered one of the last examples of late-Gothic Flemish architecture.

Protection with Protectosil®

The facade, renovated partly with donations from residents and companies, needed to withstand both weather and vandalism. The building was therefore impregnated with Protectosil® SC CONCENTRATE and given additional protection against graffiti. The treatment restored the sandstone to its previous luster and function.

News that went around the world

+++ Felix Baumgartner from Austria parachuted from a height of 36.5 km into the stratosphere, landing safely in the New Mexico desert +++ In Egypt, Muhammed Mursi, one of the leading members of the long-banned Muslim Brotherhood, was elected as the country's president +++ A total of 3.375 billion people worldwide had an active e-mail account +++

2012 – Wesel City Hall

North-Rhine Westphalia, Germany

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www.protectosil.com | 2012 – Wesel City Hall
North-Rhine Westphalia, Germany

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2012 – Wesel City Hall

North-Rhine Westphalia, Germany

2013 – Times Square New York

New York, USA

Project

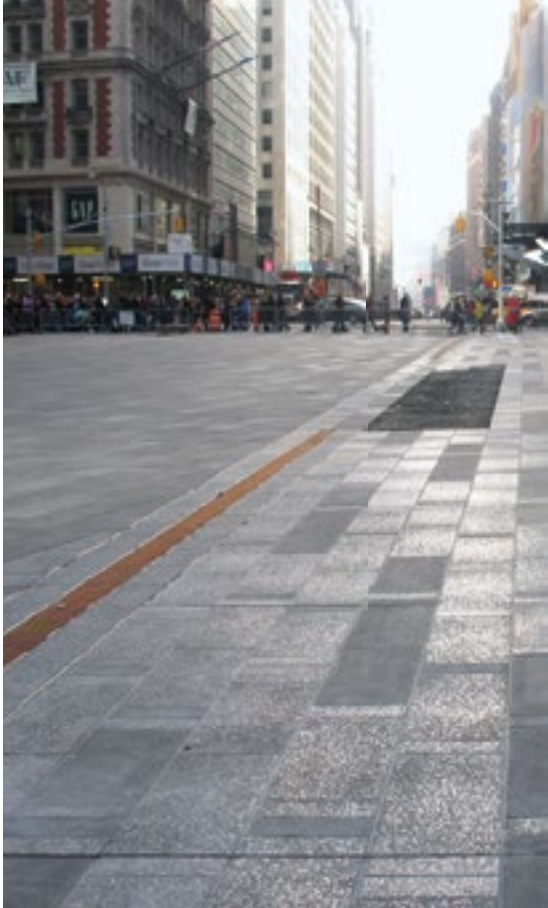
Times Square in New York City has developed into such a tourist attraction over the years that all buildings have to be covered in billboards. This is required by the building code. The first major electric billboard was installed in 1917.

Protection with Protectosil®

The walkways in the pedestrian zone also are supposed to look good and stay clean long-term. With Protectosil® BHN PLUS they received a hydrophobic and oleophobic treatment that effectively repels water, oil, and water-soluble contaminants, giving graffiti artists no chance.

News that went around the world

+++ Whistleblower and ex-NSA employee Edward Snowden revealed worldwide monitoring and espionage practices of secret services +++ Pope Benedict XVI abdicated +++ Cardinal Jorge Mario Bergoglio from Latin America became his successor as Pope Francis +++



2013 – Times Square New York

New York, USA

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2013 – Times Square New York

New York, USA

2014 – Evonik in Johannesburg

Johannesburg, South Africa

Building

Evonik Industries uses the multifunctional building in Johannesburg's Midrand as the basis for its Sub-Sahara Africa Region. The building houses offices and laboratories of the specialty chemical company's various business units on an area of 1,800 square meters.

Protection with Protectosil®

The climate in Johannesburg is sunny and dry, with strong thunderstorms and rain showers in the summer months. The resulting dust and dirt leaves traces in the streets and on house walls. The building has therefore been treated with silicone resin paint and Protectosil® SC 30 for easy cleaning.

News that went around the world

+++ The political changes in Ukraine are creating diplomatic, political, and economic upheaval between Russia, the European Union, and the United States +++ The German team defeats Argentina 1:0 at the FIFA Soccer World Cup held in Brazil to become the new world champion +++

2014 – Evonik in Johannesburg

Johannesburg, South Africa

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