

PROTECTIVE COATINGS
solutions that cover your needs



Power

Sigma Coatings is a brand of the SigmaKalon Group



Reliable durability

SigmaKalon Marine and Protective Coatings is dedicated to the development, manufacture and supply of coatings to meet the very challenging needs of specific industries.

With a heritage of outstanding expertise in coatings technology and decades of international investments in research and development for the protective coatings market, no company could be better placed than SigmaKalon Marine and Protective Coatings to meet the fast-changing global challenges of this technically demanding sector.

Power plants are responsible for keeping our electricity dependent societies switched on. Worldwide, industrial growth is continuously increasing this vital need for power. Nevertheless, power generators often operate in highly corrosive environments with long periods of service between maintenance. Their protection is crucial to meet the challenge of continuous working in these conditions and it makes the power sector among the most demanding of protective coatings users.

With top-end heavy duty coatings, wide-ranging expertise and fully dedicated staff, SigmaKalon is the natural partner to safeguard electricity production and distribution installations. Furthermore, our coatings are designed to provide safety and ease and speed of application to support our customers in boosting their production.

Driven by innovation, SigmaKalon designs solutions for high tech projects such as third generation nuclear power plants. Our involvement in these prestigious projects helps us to supply you today the coatings of tomorrow.

To guarantee their reliability, our coatings have passed third party testing programs and are compliant to ISO, Norsok, Acqpa, EDF Nuclear.



for tomorrow's Power Generators

Thermal

Thermal is the most widespread electricity generation technology and it will remain so for decades. It includes different types of plants using: coal, heavy fuel oil, vegetable oil and natural gas. This segment is characterized by high operating temperatures of process equipment, the presence of petroleum products or chemicals and highly corrosive flue gases.

SigmaKalon Protective Coatings' range includes specific products that efficiently overcome these aggressive environments. SigmaTherm is a range of high tech coatings providing steel corrosion protection at high temperature even under insulation and with no post-cure required. The SigmaGuard range is acknowledged as one of the best chemical resistant coating system available on the market. Our zinc/polyurethane heavy duty systems have successfully passed all the ISO 12944 certification tests, complying with the highest corrosion resistance categories.



Nuclear

Nuclear power plants probably have the most stringent requirements and norms that coating systems have to meet. Coating systems used in the reactor containment building must withstand loss of coolant accidents, irradiation and decontamination procedures.

Our coatings include a complete range of nuclear-dedicated protective coatings. These have exceptionally smooth surfaces for minimal contamination pick-up, easy decontamination and high radiation resistance. These coatings meet French EDF Nuclear and American Westinghouse standards. We have an extensive track record on nuclear facilities where our cutting-edge protective coatings have been successfully used. Our R&D department is permanently adjusting formulations for use in the latest generation design of nuclear reactors.





Hydro

Hydropower is the second largest source of electricity generation worldwide.

Dams are of great importance as they massively contribute to the power generation mix, with no air pollutant emissions. However, to keep giant as well as micro-dams working properly, the conduits and penstocks must be reliably protected as they are exposed to various types of aggressive conditions: fast flowing water, mild abrasion by sediments, impact of small debris on internal surfaces and condensation on external surfaces.

These operating conditions in conjunction with the minimal maintenance requirement are extremely demanding.

SigmaKalon designs protective coatings systems, such as solvent free coatings, dedicated to these specific conditions. These systems allow long intervals between maintenance. SigmaShield is a range of reinforced high build coatings featuring outstanding abrasion and impact resistance. The SigmaGuard coatings range will, in many cases, provide an optimal solution where solvent free linings are required. Our experience in this field is illustrated by our track record of success stories in locations as diverse as Spain, South Africa and Scotland.

Wind

Wind power has become a major focus for environmentally aware governments around the world, and its efficient exploitation is an area of intense activity.

Wind energy is inexhaustible and the technology to operate it through severe weather conditions is designed to last.

SigmaKalon is the ideal partner for looking after the protection and aesthetics of your structures. Our coatings are characterized by their durability, application flexibility and cost effectiveness. Our ISO 12944 compliant coating systems are environmentally friendly and have proven their reliability and low maintenance requirements in wind farms worldwide; from the windy high plains of the USA to the offshore wind turbine farms in Europe. Our SigmaZinc coatings are durable zinc primers suitable for epoxy and polyurethane topcoats.

They allow great production speed to maximize your productivity.

SigmaDur finishes provide outstanding aesthetic protection for the towers.



High Voltage Pylons

Regardless of where power plants are located, their power must be transported from the plant to the end users through a grid involving two types of infrastructure: the high voltage transmission and the low voltage distribution systems.

High voltage is used for transmission lines to minimize electrical losses. Most of these lines are aerial to prevent magnetic fields being created in the ground. The pylons' condition is vital for transmission reliability. These are mostly hot dipped galvanized in-shop during manufacture, but their maintenance is usually done by brush application in the field. SigmaKalon's high quality protective coatings range safeguards this type of vital electricity distribution equipment worldwide.





The SigmaKalon Protective Coatings range provides:



Sigma AquaCover

A waterborne coatings range offering reliable corrosion protection in atmospheric exposure



Sigma Coltura

A complete range of floorings that meet the different exposure conditions from light to heavy interior and exterior exposure



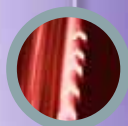
SigmaCover

A range of tough, durable epoxy coatings designed for both new construction and maintenance



SigmaDur

A durable finishes range of products that delivers outstanding performance in terms of durability and colour and gloss retention



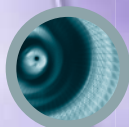
SigmaFast

A range of products that has been specifically designed to improve productivity through speed of cure of the protective coating



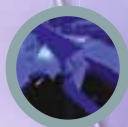
SigmaGuard

A solvent borne and solvent free tank lining range providing maximum chemical resistance



SigmaLine

SigmaLine provides maximum internal and external corrosion protection as well as temperature resistance



SigmaShield

A heavy duty reinforced range for tough environments where abrasion and impact resistance are essential



SigmaTherm

A range of coatings designed for extreme high temperature conditions providing a dependable long-term performance for both new construction and maintenance



SigmaZinc

A complete range of high quality zinc primers which can be built in as a primer in systems with epoxies and polyurethane topcoats conditions from light to heavy interior and exterior exposure

SigmaKalon Marine and Protective Coatings

SigmaKalon Marine and Protective Coatings brings unrivalled levels of experience and expertise in coatings technology through our expanding global supply and distributor network.

We understand our customer needs and the challenges they face and respond quickly with effective economic solutions, working closely to develop the products they need.

Formulations that can be applied more easily, resist the elements better and reduce overall environmental impact in compliance with both local and international standards.

With in-depth knowledge of the working realities facing the industries we supply, our Technical Service Representatives offer an unsurpassed perspective on the coatings options that can help your industry to function optimally, maximising technical performance and minimising expensive down time.



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