

# SAFEGUARD YOUR ENVIRONMENT AND ASSET THROUGH PROTECTIVE COATINGS

A protective coating is a layer of material applied to the surface of another material usually painted or sprayed to inhibit or mitigate any desired defect or shortcoming in a substrate and serve as a decorative element as well. These coatings protect surfaces (concrete, metal, HVAC systems, etc) by preventing water, oxygen, and other contaminants from coming in contact with the underlying material.

## IMPERATIVE NEED?

The continual temperature rise and degradation of environmental conditions caused by global warming as a result of climate change, rapid urbanisation and other anthropogenic activities.

## ADVANTAGES OF COATINGS IN YOUR FACILITIES

- 01 Save your time, money, resources and facilities through value addition**  
It is common for structures to be degraded due to wear and tear. Damaged material demands more time and effort resulting in increased expenditures and resources. Protective coating adds value for metals or substrates of structures by enhancing their structural integrity and asset reliability. It offers maximum ROI and increased service life of the existing capital.
- 02 Protect your environment**  
Protective coating, an eco-friendly product plays a pivotal role in cutting down emissions and thereby reducing the carbon footprint.
- 03 Durable and has a lifespan of 10+ years**  
In addition to insulation, the protective coating provides durability, corrosion and fire resistance and protects from moisture, corrosive fluids and other chemicals, abrasion, turbulence, heat, cold and impact forces thereby sealing any porous substrate.
- 04 Increased efficiency and performance**  
Insulating or treating substrates through coating increase the performance as it retrofits and envelopes the existing substrate from further external and internal problems.
- 05 Safety of employees and facilities**  
We know how important your employees and assets are to you and your business. One way to ensure their safety is by using protective coating in the workplace/factory.

## FACTS

Each degree increase in temperature can save up to 5% on AC consumption  
The annual cost of corrosion in UAE=14.3% OF GDP

## WHICH COATING SOLUTIONS DO WE OFFER?



Thermal insulation



Rust control



Plant room Di-electric insulation



Anti-slip coatings

# OUR SERVICES

## 01 Site Survey and Reports

We survey, identify, analyse and advise the types of desirable and resolute coatings as well as their accompanying requirements based on material and factory requirements

## 02 Mitigative services

- Produce desired results by understanding the importance of coating specification and pre-job conferences
- We implement mitigative solutions while adhering to quality standards to meet client and authority requirements.
- We warranted our services for the solutions we offer to our clients

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**WE SURVEY, STUDY AND ANALYSE, AND  
YIELD VERSATILE RESULTS AND  
WE PROVIDE A SERVICE WARRANTY TOO**

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## APPLICATIONS OF PROTECTIVE COATINGS



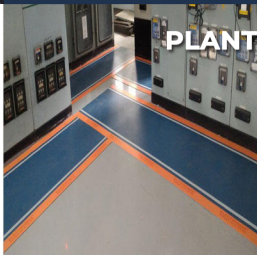
### BUILDING

Rust treatment and thermal insulation for facade and roofs and soffit of HVAC rooms (above the false ceiling)



### INDUSTRIAL

Rust treatment and thermal insulation for valves and pipelines, warehouses, HVAC, chillers, ducts, steel, aluminium, steam lines, steel beams, framing, steel containers, silos, storage tanks, cement drums, etc.



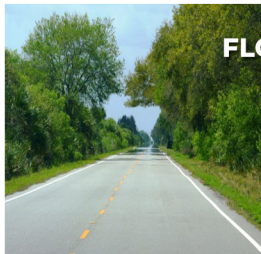
### PLANT ROOM

Thermal insulation, shockproof and anti-slip coatings including wall and flooring, and rust treatment and thermal insulation for MEP installations



### OFFSHORE AND ONSHORE OIL AND GAS FACILITIES

Rust treatment and thermal insulation for pipes, storage tanks, jetties, vessels, structural steel, factory roofs



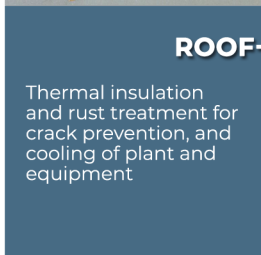
### FLOOR

Crack prevention and thermal insulation for cooling of dark pavement and asphalt flooring



### LOGISTICS

Rust treatment and thermal insulation for shipping containers, vessels, trucks, etc.



### ROOF-TOP

Thermal insulation and rust treatment for crack prevention, and cooling of plant and equipment



### TRANSPORTATION

Rust treatment and thermal insulation for automobiles, parking structures and skylights



# THERMAL **BARRIER**/INSULATION COATINGS

The continuing temperature rise caused by global warming due to climate change and rapid urbanisation is an alarming concern and demands the use of special techniques to control and safeguard its effects within the environment.



## WHY USE THERMAL COATINGS?

Thermal barrier/insulation coatings are nurtured creative solutions and smart choices of materials optimizing surface optical properties, refracting and dissipating up to 85% of the heat; and reducing heat conduction. It keeps buildings cooler in the summer and warmer in winter by reducing heat transfer through exterior walls by minimizing Solar/Radiant Heat Gain and thereby saving energy sustainably.

## CORROSIVE COATINGS

### USE RUST TO CONVERT RUST!

Corrosion is the destructive and unintentional degradation of a material caused by its environment. Rust, also known as Iron Oxide, or  $\text{Fe}_2\text{O}_3$ , is a typical kind of corrosion seen on iron and steel structures. Damaged material demands more time and effort spent replacing it, resulting in higher costs.

Corrosive coatings catalysis rust to form an inert coat on the underlying material killing and protecting rusts. Applying a second layer of coatings like thermal insulation or a paint/topcoat could further protect and provide aesthetics.



### WHY RUST IS A PROBLEM?

1. Weakens material compromising the structural integrity and reliability of your metal
2. Lose of the efficiency of metallic parts and machines-Loss, contamination, and deterioration of the appearance and structure
3. A small amount of rust spreads fast once the coating of your material is compromised
4. Safety, health and environmental risks, especially in manufacturing plants
5. Technical malfunctions in machines

## ELECTRICAL INSULATION **COATING** - Di Electric Coating

Electrical insulation/dielectric coating for floors is designed to give high electrical resistance for a broad range of electrical applications. When properly applied and cured, a durable coating forms above the surface.

### WHY DI-ELECTRIC COATING?

Knowing how important your employees are to you and your business, one way to ensure their safety is by using protective coating in the workplace/factory as it protects people from electrical shocks. The use of such coating can also make a surface non-slip or non-stick guaranteeing lesser accidents and a safer and more effective environment for your employees to work in.





## FREQUENTLY ASKED QUESTIONS

### **Why use protective coatings even after the initial treatment using paint at the time of construction of a structure?**

As it is not the primary goal of paint to combat targeted coating demands, it generally only provides protective characteristics in very few concentrations. The difference is performance-What paint can't do is where coating comes in. A coating is a type of paint that has a specific purpose. The final purpose is determined by the coating system chosen. A coating can be a paint, but a paint cannot be a coating.

### **Can protective coatings be used for industrial parts and machinery?**

It is common for machinery to be degraded due to wear and tear or the effect of external contaminants and it's critical for your company's success that the machinery and equipment you utilize remain in top shape. Protective coatings help you lower not only the cost of machinery servicing and repairs but also energy control and temperature control services, extending the lifespan of the machines and accordingly promoting sustainability and durability of the hardware just as your business.

### **Can protective coatings be applied to existing paints or surfaces?**

Yes and No. Can only be decided after a thorough survey, analysis, and investigation by our certified team.

### **Are there any LEED points attributed to using protective coatings?**

Yes, LEED or Leadership in Energy and Environmental Design, consists of a suite of rating systems for the design, construction and operation of high performance green buildings, homes and neighborhoods. For more specific information on LEED points go to <https://www.usgbc.org/leed>

### **Can you clean protective coatings?**

Generally, all exterior applications can be cleaned as needed and interior applications can be cleaned with a wet sponge whenever required (subjected to system specifics).

### **Why choose us and our service?**

Having a team of pro-active and experienced professionals and employees at all levels, we provide state-of-the-art coating services and quality delivery of work economically and safely focussing on client requirements along with a promised reputation of trust. We also provide a service warranty for all our projects.