IDHANT

ENGINEERING PRIVATE LIMITED

Engineered Asset Protection | **Energy Conservation** | **ESG Enablement**



#heretoprotect

MAKE IN INDIA | NET ZERO 2070 | MSME MICRO • SMALL • MEDIUM • ENTERPRISES

IDHANT
ENGINEERING PRIVATE LIMITED

About Idhant



IDHANT is a multidisciplinary industrial engineering company driven by **innovation, precision and execution excellence.** We specialize in surface engineering solutions that protect critical assets from corrosion, heat, abrasion, and weather-related deterioration across industrial, commercial, and institutional environments.

Established in **2019** and incorporated in **2023**, Idhant has built a strong reputation for on-site coating applications in complex operating conditions, including high humidity, corrosive fumes, thermal stress and continuous plant operations.

Our strength lies in our engineering-first approach that includes understanding substrate conditions, exposure environments and operational constraints before designing and applying coating systems. This enables us to deliver solutions that improve **energy efficiency, enhance safety** and significantly **extend the service life** of structures and equipment.

Through engineered energy efficiency and asset life extension, Idhant contributes to India's **Mission Net Zero 2070** by reducing energy demand and associated carbon emissions at the asset level.

Established in **2019**

Incorporated in **2023**

Engineering-First Approach

Aligned with India's **Mission Net Zero 2070**

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The Problem



Escalating maintenance costs due to corrosion, heat ingress, abrasion and water damage



Energy losses in industrial and commercial facilities



Asset downtime caused by conventional repair and coating practices

The Solution



1. On-site engineered coating and cleaning applications
2. Application without shutdowns (non-hazardous areas)
3. Up to **40%** surface temperature reduction
4. Up to **30%** energy savings
5. Anti-corrosion and abrasion protection
6. Non-conductive live panel cleaning
7. Highly durable flooring solutions
8. **3x** or more asset life extension
9. Structured SOP and AMC support
10. Performance assurance and warranty

Lower Maintenance Cost | Higher Energy Efficiency | Longer Asset Life | Safer Operations | Assured Performance

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Core Services

Engineered Surface Protection & Performance Solutions



TRC

Thermo-reflective Coating

- Up to **40%** surface temperature reduction
- Up to **30%** energy savings
- Applicable on any surface
- Life expectancy **> 10 years**



ACT

Anti-corrosion Coating

- On-site application
- Chemically neutral membrane
- Resists fumes, dust, heat, salinity & moisture
- Rust neutralising pre-treatment



ABPC

Abrasion Protection Coating

- On-site application
- Chemically neutral membrane
- Non-sticky surface
- Excellent abrasion protection
- Enables swift flow of sand & improves casting quality



Waterproofing

Protective Membrane System

- Hydrophobic membrane
- Gap filling by core material
- Mechanised surface preparation
- Weather, dust, algae, mold & fungal resistance
- Extended structure life



Stamp Concrete

Durable Flooring Solution

- Replacement to paver blocks
- Zero maintenance
- Multiple patterns & colours
- Long life
- Skilled workmanship



Elephant Armor®

DOT Concrete Repair Mortar

- High-strength, fibre-reinforced mortar
- Superior bond & flexural strength
- Abrasion, freeze-thaw & de-icing salt resistant
- Structural repair, underlayment & overlay
- Rapid setting & durable



On-Line Panel Cleaning

Non-conductive Panel Cleaning

- On-line cleaning of HT/LT panels
- Non-corrosive & non-corrosive chemicals
- Quick evaporation & no residue
- Suitable up to **50,000 Volts**

Reduces Maintenance Cost | Improves Energy Efficiency | Extends Asset Life | Enhances Safety | Supports ESG & Net Zero 2070

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Execution Framework & Compliance

A Structured, Safe and Reliable Project Delivery Approach

Execution Framework

1. Technical Evaluation & Site Study
2. Substrate & Exposure Assessment
3. Customised Coating System Selection / Adaptation
4. On-site Formulation & Controlled Application
5. Post-application Inspection & Performance Assurance
6. Warranty, AMC & Lifecycle Support



Compliance & Safety Orientation

- Water-based, eco-friendly, zero-VOC material systems
- Standardized surface preparation & application protocols
- Trained application teams with safety-first execution practices
- Responsible waste handling & site housekeeping

Quality & Performance Assured | **Safe & Compliant Execution** | **Longer Asset Life** | **Sustainable & Environmentally Responsible**

Our Sustainability Philosophy

IDHANT

At Idhant, sustainability is **embedded in engineering execution** and not treated as a compliance exercise. Our coating and surface engineering solutions are designed to **reduce energy consumption, extend asset life, minimize material waste** and **lower the overall environmental footprint** of industrial and built assets.

By enabling **energy conservation** at the asset level, Idhant contributes directly to **national energy efficiency** objectives and **long-term climate resilience**.



- **Lower Energy Consumption**
- **Extended Asset Life**
- **Minimized Material Waste**
- **Reduced Environmental Footprint**

- **Supports Net Zero 2070**
- **Improves Energy Efficiency**
- **Conserves Resources**
- **Builds a Cleaner, More Resilient Future**

IDHANT | Carbon Footprint & Carbon Credit Enablement

Engineering Solutions for Measurable Emissions Reduction

By delivering verifiable reductions in energy consumption and extending asset lifecycles, Idhant's solutions support carbon footprint reduction initiatives. These outcomes can be mapped to **ESG reporting**, internal carbon accounting, and future **carbon credit** and offset frameworks under evolving regulatory and voluntary markets.



Green Products & ESG Enablement

- Water-based, eco-friendly coating systems
- Zero / low VOC formulations for sensitive environments
- Reduced waste generation through life extension of assets
- Alignment with ESG, sustainability, and net-zero roadmaps



- Lower Carbon Footprint
- Reduced Energy Use
- Longer Asset Life
- ESG & Net Zero Alignment
- Carbon Credit Readiness

IDHANT | Sustainability & ESG Framework

Energy Conservation | Carbon Footprint Reduction | Safe & Responsible Execution

E – Environment

Energy Conservation as a Service

Thermo-reflective and protective coating systems reduce heat ingress, lower cooling energy demand, peak loads and associated GHG emissions.

Carbon Footprint Reduction

- Reduced Scope 2 emissions (lower electricity use)
- Lower embodied carbon (extended asset life)
- Less material replacement, repair and waste

Impact Area	Sustainability Outcome
Thermal load reduction	Lower energy use and emissions
Corrosion protection	Extended asset life
Abrasion reduction	Reduced material loss
Waterproofing	Structural durability and ваа waste reduction



ESG Enablement Through Engineering

S – Social

Safety, skill development and responsible on-site execution with trained teams, standard preparation and controlled application practices.

- Improved workplace safety (non-toxic, low-VOC systems)
- Healthier indoor and industrial environments
- Protection of public and community infrastructure

G – Governance

A structured, transparent execution model with SOPs, performance assurance and warranty compliance.

- Standardised execution SOPs
- Performance-backed delivery and AMC support
- Alignment with ESG reporting and sustainability disclosures
- Compliance with client EHS protocols and site-specific safety

Green Products & Materials

- Water-based, eco-friendly coating systems
- Zero / low VOC formulations
- Reduced waste generation (extended asset life)
- Safer application for workers and occupants
- Lower environmental impact across application and lifecycle

Lower Energy Consumption | **Extended Asset Life** | **Reduced Carbon Footprint** | **Supports Net Zero 2070** | **Safer & Responsible Execution**

IDHANT | Carbon Impact Calculation for TRC System

Energy, Cost and Emission Savings with Thermo-Reflective Coating



IDHANT TRC

Thermo-Reflective Coating

- Lower cooling energy
- Reduced emissions
- Improved energy efficiency

Parameter	Before: Bare Profile Sheet Roof	After: TRC Coated Roof	Net Savings / Impact
Cooling Energy Intensity (kWh/m²/year)	110	45	65
Roof Area (m²)	10,000	10,000	–
Annual Cooling Energy (kWh/year)	11,00,000	4,50,000	6,50,000
Energy Reduction (%)			≈ 59%
Electricity Tariff (₹/kWh)	8	8	–
Annual Electricity Cost (₹/year)	88,00,000	36,00,000	52,00,000
CO_2 Emissions (tCO_2/year)	900	370	530

**Tentative data for calculation purposes only*

Key Assumptions *(for calculation purpose)*

- Roofing: Bare GI / colour-coated profile sheet
- Insulation: None
- Climate: Warm–hot Indian climate (Composite / Hot & Dry)
- Building type: Industrial / warehouse / factory
- Cooling system: Split / packaged AC
- Operating hours: 8–10 hours/day
- Indoor setpoint: 24–26°C

≈ 59% Energy Reduction | **₹ 52,00,000** Annual Cost Savings | **530 tCO_2/year** Emission Reduction | **Carbon Credit Potential**

Note: Figures are retained as illustrative estimates, not independently verified performance claims.

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Thermo-Reflective Coatings / Waterproofing

- On-site application
- Up to **40%** surface temperature reduction
- Up to **93%** sunlight reflection
- Applicable on all surfaces (metals, RCC, wood, ceramics etc.)
- Up to **30%** energy savings on air-conditioned buildings
- Water-based materials
- Eco friendly
- Hydrophobic membrane – advantage on RCC
- Rust protection on metals
- Easy to maintain, backed up by AMC
- Life expectancy > **7 years**

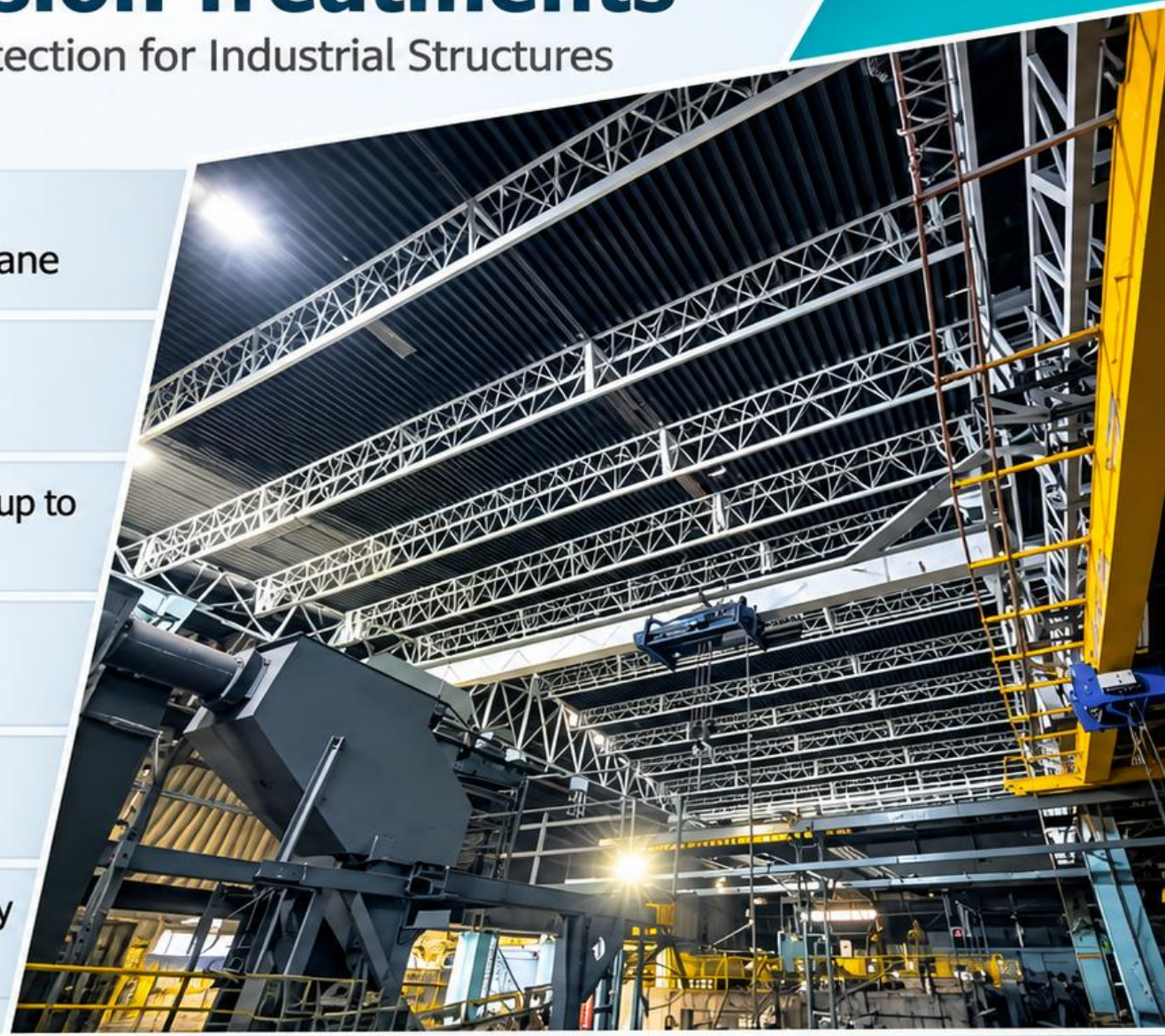


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Anti-Corrosion Treatments

High-Performance Protection for Industrial Structures

- On-site application
- Chemically neutral membrane
- Applicable on sheets and structures
- Elasticity **250%**
- Non-sticky hydrophobic membrane
- Heat resistance up to **140°C**
- Water-based materials
- Eco friendly
- Zero VOC
- Standard process
- Easy to maintain, backed up by AMC
- Life expectancy **> 3x**



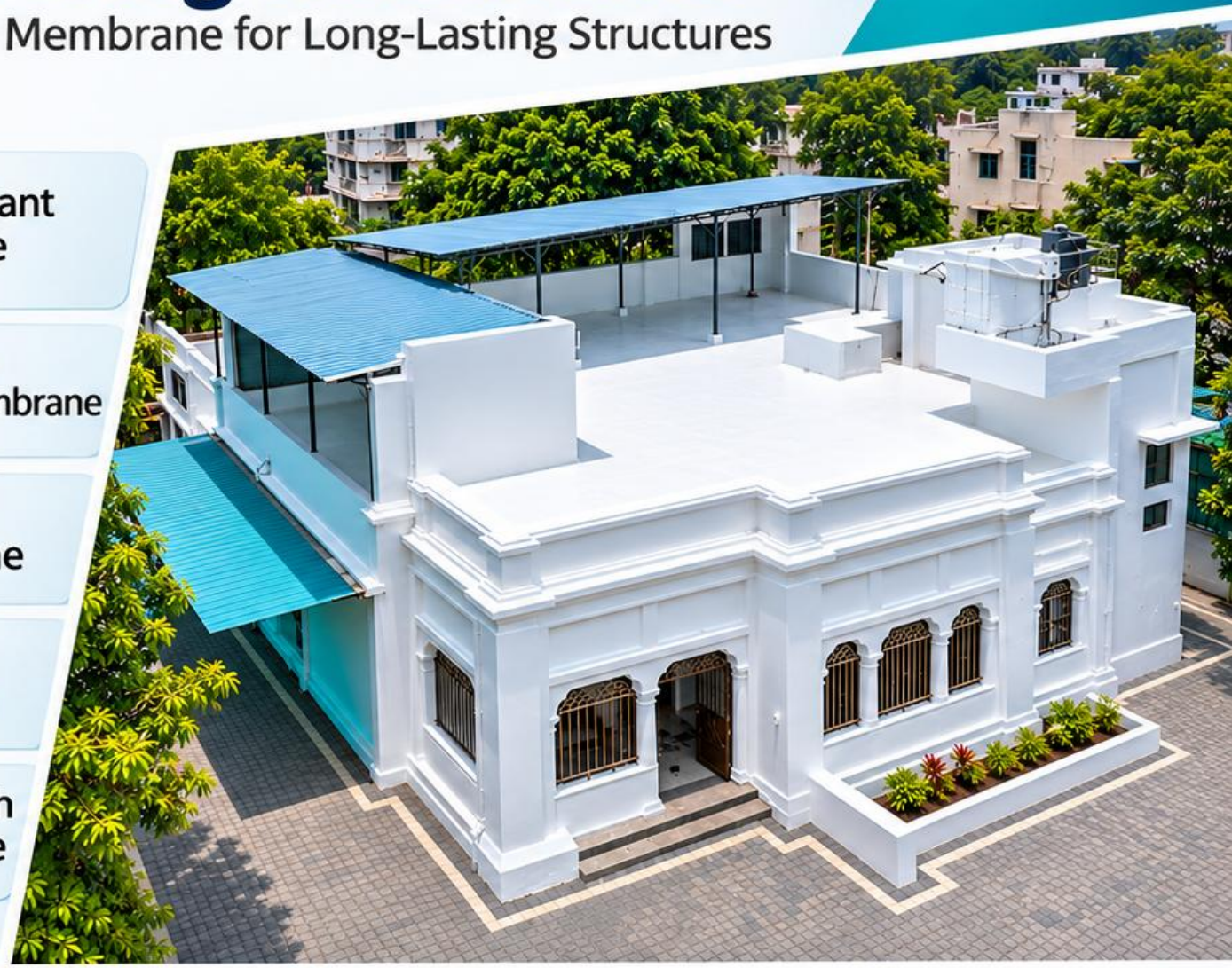
Long-Lasting Corrosion Protection | Higher Reliability | Lower Lifecycle Cost

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Waterproofing Treatments

Durable, Protective Membrane for Long-Lasting Structures

- **250 microns** of hydrophobic membrane over RCC surface
- Heat resistant membrane
- Gap filling by core material
- Chemically neutral membrane
- Surface preparation by trained team
- Elastic membrane
- Wear resistant
- Dust resistant
- Anti-algae anti-fungal membrane
- Matte finish membrane



Leak-Free Protection | Longer Service Life | Preserves Structural Integrity | Aesthetic & Durable Finish

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Abrasion Protection Treatments

High-Durability Linings for Sand Hoppers & Material Handling Systems

- On-site application
- Sand-hoppers in foundries
- Chemically neutral membrane
- Swift flow of sand
- Zero ratholing due to swift flow
- No flaking
- Heat resistance up to 140°C
- Non-sticky layer
- Zero VOC
- Easy to maintain, backed up by AMC
- Life expectancy > 3× conventional practices



- Higher Abrasion Resistance
- Smoother Material Flow
- Longer Service Life
- Lower Maintenance Cost

Authorised Supply & Application Partner

IDHANT



ELEPHANT ARMOR®

DOT Industrial Grade Mortar

High-Performance Concrete Repair & Rehabilitation Mortar

Idhant Engineering is an authorised supply and application partner for Elephant Armor® DOT Concrete Repair Mortar, offering high-performance solutions for industrial concrete repair, rehabilitation and surface protection.

Key Product Advantages

- Fibre-reinforced, high-strength cementitious repair mortar.
- High flexural strength and superior bonding.
- Excellent abrasion resistance and low permeability.
- Resistant to freeze-thaw cycles and de-icing salts.
- Suitable for structural underlayment, repairs and overlays.
- Rapid setting with excellent durability.

Technical Performance (75°F / 24°C)

Compressive Strength (ASTM C109)	**Up to 7,000 PSI** (28 days)
Flexural Strength (ASTM C1609)	**1,600 PSI** (28 days)
Bond Strength (ASTM C882)	**2,500 PSI** (28 days)
Set Times (ASTM C191)	**Initial Set: ~ 50 min** **Final Set: ~ 70 min**

Applications



Industrial floors and heavy-duty pavements



Concrete cracks, spalls and surface deterioration



Ramps, loading bays and parking structures



Bridges, tunnels, dams and industrial infrastructure



High-strength concrete repair and protective overlays

IDHANT | SUPPLY | APPLICATION | TECHNICAL SUPPORT

Delivering specialised concrete repair solutions backed by proven product technology and professional on-site execution.

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Stamp Concrete

A Durable, Aesthetic & Low-Maintenance Flooring Solution

- Replacement to paver blocks
- Zero maintenance
- Varieties in patterns & colors
- Long life
- Stone & wooden finish
- Skilled workmanship
- Various patterns available as options
- Durable
- Anti slip



PATTERN OPTIONS



Cobblestone | Slate | Ashlar | Wood Grain | Stone

Safe & Slip-Resistant | Aesthetic Appeal | High Durability | Low Maintenance | Ideal for Industrial, Commercial & Outdoor Areas

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Live Panel Cleaning

Safe, On-Line Cleaning for Electrical Panels







- On-line / Live cleaning of HT / LT panels
- 100% electrically non-conductive
- 100% non-flammable
- Non-erosive & non-corrosive chemicals
- Quick evaporation
- Dust-free electronic & electrical components
- Reduction in heat losses due to dust removal
- Minimised component failures
- No residue
- No shutdown required

NKW-99 OPP / **Live Panel Cleaning Solution**

Suitable up to **50,000 Volts** Applications

Improves Operational Reliability | Extends Equipment Life | Reduces Maintenance Cost

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Works Done
Selected Projects & Applications









1. **Sudarshan Chemicals Ltd.**
   Roha & Mahad, Raigad, Maharashtra
2. **Neelikon Food Dyes and Chemicals Ltd.**
   Roha, Maharashtra
3. **FDC Limited**
   Roha, Maharashtra
4. **Indus Biotech Limited**
   Pirangut, Pune, Maharashtra
5. **Pyrotek India Private Limited**
   Sanaswadi, Pune, Maharashtra
6. **Zanvar Group – S J Iron**
   Kolhapur, Maharashtra
7. **Ved Industries**
   Ichalkaranji, Kolhapur, Maharashtra
8. **Vedanta Aluminium Ltd.**
   Jharsuguda, Odisha
9. **Jai Hind Electricals**
   Shivapur, Pune, Maharashtra
10. **Fine Fittings LLP**
    Bhosari MIDC, Pune, Maharashtra
11. **Supercraft Foundry Private Limited**
    Miraj, Sangli, Maharashtra
12. **Central Biotech Private Limited**
    Saoner, Nagpur, Maharashtra
13. **New Age Makers Institute of Technology**
    Godhavi, Ahmedabad, Gujarat
14. **Various residential projects**
    Across Maharashtra
15. **Various temple pathways**
    Across Maharashtra, Karnataka and Goa

Chemicals & Process Industries | Foundries & Metals | Biotech & Pharma | Institutions & Infrastructure | Residential Spaces | Heritage & Temple Pathways

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Customers' Feedback

Real Experiences. Proven Performance.



"We appreciate **timely completion** and **excellent workmanship.**"
– C B Joshi, DGM, Civil, Sudarshan Chemicals Ltd



"We compliment **outstanding performance** of anti-corrosion treatment done over our ETP structure."
– Manoj Rane, Sr Manager, Works, Indus Biotech Ltd



"Expert service resulted in **reduced power costs by 30%.**"
– Manoj Bhole, Maintenance Manager, FDC Limited



"Idhant's treatments are very useful for **foundry applications** to save on enourmous damages due to corrosion."
– Sandeep Pawar, Zanvar Group



"Our structure at furnace area is treated by anti-corrosion treatment and is **performing well** in high humidity, acidic vapour, high heat and corrosive dust laden air."
– Mahesh Date, CMD, Ved Industries

TRUSTED SOLUTIONS FOR INDUSTRIAL INFRASTRUCTURES

Reliable Performance | Longer Asset Life | Lower Operating Cost | Built for Harsh Environments

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Application Areas

Proven Solutions Across Diverse Industries

- Dairy farms
- Food processing units
- Cold storages
- Steel plants
- Commercial buildings
- Transport vehicles
- Smelting units
- Hospitals
- Schools
- Pharmaceutical industries
- Airports, shipyards & ports
- Containers
- Pipelines & ONGCs
- Warehouses
- Power plants
- Bridges
- Religious places
- Plant & machinery
- Automobiles
- Residential complexes
- Guest houses
- Hotels
- Malls
- Government buildings



Key Sectors Served

- Manufacturing
- Power & Utilities
- Oil & Gas
- Ports & Logistics
- Government & PSUs
- Commercial Buildings

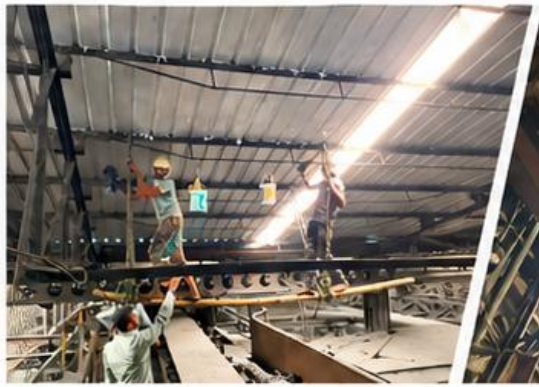
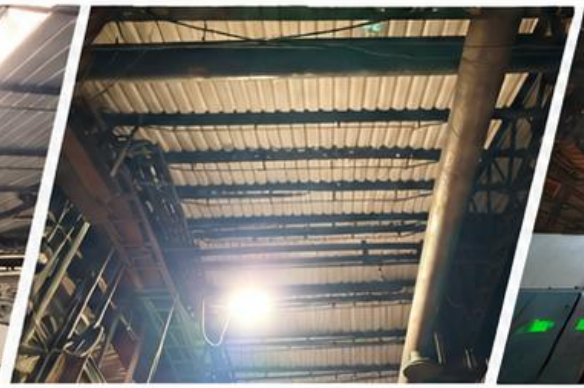
IDHANT | Application Portfolio – Actual Site Photographs













Industrial Roofs | Steel Structures | Factory & Process Areas | Surface Protection | Durable & Reliable Execution

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Our Journey – From Foundations to a Global Horizon

A growing journey of trust, technology and performance in engineered surface protection

A Stronger IDHANT Today, a Wider World Tomorrow.



The Beginning

FY19–20

- Laid the foundation
- Built core capabilities
- First industrial applications

Building Momentum

FY22–25

- Expanded product portfolio
- Delivered critical industrial projects
- Earned trust with leading customers
- Developed new services & solutions

Where We Are Today

FY26

- Strong order book & project pipeline
- Diversified solutions – Coatings, Waterproofing, Stamp Concrete, Panel Cleaning & Repair Mortars
- Growing partnerships & retainers
- Now present in **Qatar through Supra Trading and Services W.L.L.**

Now in QATAR

Through our Authorised Channel Partner

SUPRA TRADING AND SERVICES W.L.L.



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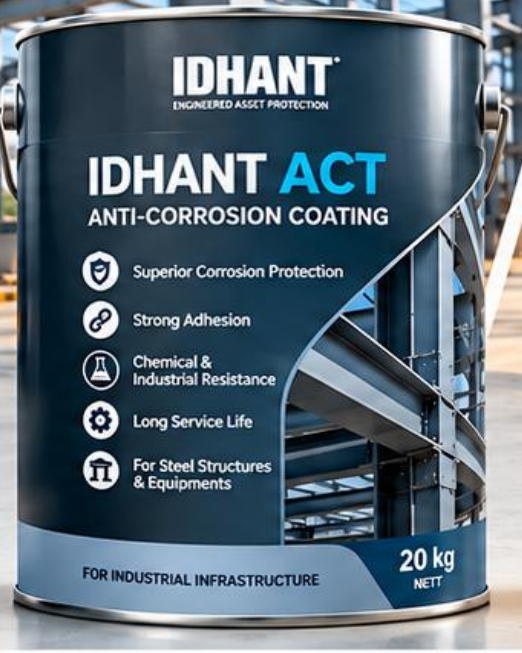
Industrial Coating Solutions

High-Performance Coatings for Thermal Control, Corrosion Protection & Stone Conservation

IDHANT TRC
Thermo-Reflective Coating

- Keeps buildings cooler
- Reduces energy consumption
- Enhances thermal comfort







IDHANT WR
Transparent Stone Protection Coating

- Repels water & moisture
- Prevents stains & soiling
- Preserves the original look
- Ideal for heritage structures

Also Available for Material Supply

Complete Application Services
(Supply + Surface Preparation + Application)

- Industrial-Grade Performance
- Versatile Applications
- Long-Lasting Protection
- Sustainable & Eco-Friendly
- Backed by Idhant Expertises

IDHANT

Contact & Channel Partner

Get in Touch with Idhant or Our Qatar Partner

Reach Us

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