



Vdex Technologies Sdn. Bhd.

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Company Overview

Vdex Technologies Sdn Bhd (Vdex) is a leading Malaysian provider of advanced **metal surface treatment and protective coating solutions**, with over a decade of proven experience since its establishment in 2010. Specializing in engineered coatings and surface finishing for both metal and non-metal substrates, Vdex combines **process engineering excellence with rigorous quality control** to deliver high-performance, durable surfaces that meet the exacting demands of modern industrial manufacturing. Furthermore, we are extremely strong and focus in R&D for our coating solutions, and constantly adopting new coating methods and materials in order on product applications.

Our surface treatment and coating portfolio covers a comprehensive suite of technologies — including **sandblasting, powder coatings, nano coatings, fluoropolymer and ceramic non-stick finishes, high-temperature resistance coatings, chemical-resistant systems, anti-fingerprint treatments, and industry-grade fluoropolymer PVDF (Kynar) coatings** — tailored for enhanced corrosion resistance, wear protection, surface integrity, and functional performance across varied applications.

Our capabilities support critical sectors such as **electronics and semiconductor manufacturing, automotive components, precision machinery, industrial equipment, architectural metalwork, marine environments, and consumer goods**, with bespoke solutions designed for optimal reliability, long life cycle, and minimal maintenance. We leverage **modern coating technologies and controlled process workflows** to ensure uniformity, adherence, and compliance with performance expectations of global OEMs.

At Vdex, customer focus is central — from consultative specification development through to rapid delivery and post-application evaluation — enabling partners like Samsung to benefit from enhanced product protection, aesthetic quality, functional performance, and scalable surface engineering support.

Our core value proposition lies in combining:

- Technical surface engineering knowledge
- Controlled coating processes
- Consistent quality management

- Scalable production capability
- Strong in R&D development on coating solutions

Our Core Business

The company's core business is in the provision of spray painting and powder coating systems, sandblasting and powder coating equipments for steel and non-steel substrates. The company supplies polyester powder coating, epoxy powder coating along with metal, stainless steel and applicator for architectural coating.

At Vdex, safety requirements and efficiency are upheld at all times to ensure all services provided are of high quality. The company is fully certified and licensed to ensure only advanced and qualified techniques are used in its sandblasting and powder coating systems.

Specialised application methods are used in its sandblasting and powder coating systems for steel and non-steel substrates which included surface preparation, coating types, inspecting criteria, curing method, lab testing, failure modes for various coatings and specialised coatings and linings.

Core Competencies

Vdex specialises in engineered surface enhancement solutions designed to improve:

- Corrosion resistance
- Surface durability
- Chemical resistance
- Heat resistance
- Non-stick functionality
- Anti-fingerprint performance
- Cosmetic appearance consistency

Our technical team works closely with customers to customise coating specifications aligned with product performance, lifecycle requirements, and aesthetic standards.

3. Services & Capabilities

3.1 Surface Preparation

- Sandblasting and abrasive blasting
- Surface profiling and conditioning
- Degreasing and cleaning processes
- Adhesion optimization preparation

3.2 Functional & Protective Coatings

- Powder coating systems
- Fluoropolymer coatings (including PVDF systems)
- Ceramic non-stick coatings
- High-temperature resistant coatings
- Chemical-resistant coating systems
- Anti-corrosion protective coatings
- Anti-fingerprint (AFP) coatings for appliances and consumer products
- Nano-based surface treatments

3.3 Substrate Compatibility

- Mild steel
- Stainless steel
- Aluminium
- Galvanised metal
- Selected non-metal substrates

4. Industry Applications

Vdex supports diverse industrial sectors including:

- Electronics and electrical components
- Home appliance manufacturing
- Industrial machinery and equipment

- Automotive components
- Marine and offshore structures
- Architectural metal finishing
- Consumer product manufacturing

5. Quality Commitment

Quality assurance is embedded in every stage of our production workflow. Our operational focus includes:

- Process control monitoring
- Coating thickness management
- Adhesion validation
- Surface inspection protocols
- Batch consistency verification

We prioritise repeatability, reliability, and compliance with customer technical standards.

6. Operational Strengths

- Established Malaysian manufacturing base
- Skilled technical workforce
- Scalable production capacity
- Customised project engineering support
- Responsive turnaround time
- Strong commitment to continuous improvement

7. Vision & Mission

- **Vision**
To be a trusted regional leader in advanced surface engineering and coating technology.
- **Mission**
To deliver high-performance, durable, and value-driven coating solutions that enhance product lifespan, functionality, and visual excellence for our customers.

Website

www.vdex.com.my

Additional

Anti-Fingerprint Coating Solutions

Vdex provides advanced anti-fingerprint (AFP) coating systems tailored for:

- **Home appliances (refrigerators, ovens, washing machines, range hoods)**
- **Stainless steel panels**
- **Consumer product housings**
- **Decorative architectural components**

Key performance features include:

- **Reduced visible fingerprint marks and oil smudges**
- **Easy-clean surface technology**
- **Scratch and abrasion resistance**
- **Chemical resistance against household detergents**
- **Uniform matte or satin finish consistency**
- **Long-term cosmetic durability**

Our AFP systems enhance both functionality and premium aesthetic positioning for modern appliance brands.