Industrial Acid Proofing is a specialised corrosion resistance and surface protection Company augmented by the diverse skills of a multi-disciplinary engineering and construction firm that delivers on technically diverse, professional turnkey projects within the civil, building and acid proofing environments.

IAP, registered in 1982 operates together with Industrial Acid Proofing INTERNATIONAL (PTY) Ltd formed in 2004 due to the large scale cross border contracts. The Directors, Management and artisans have been in the industry of corrosion protection for in excess of 100 years. IAP’s Head Office operates from Johannesburg South Africa, with branches in Namibia, Zambia, Madagascar and Mauritius.

IAP offers exclusive access to a diverse range of services:

- Suppliers of Polymeric Cells and Anodes
- Industrial Flooring – Screed Linings
- Flake Glass and GRP Linings
- HDPE / Bekaplast Linings
- Ceramic Tower Packings
- Refractory Linings
- Acid Resistant Bricks and Mortars
- Pump casing Refurbishment
- Specialised Waterproofing
- Acid Plant Specialists
- Project Management
- Rubber Linings

IAP hold:

- A well established and lucrative blue-chip client base.
- Longstanding and excellent supplier relationships.
- Loyal and trustworthy workforce with specialist corrosion protection and construction knowledge and experience.
- 95% continuous clients, a percentage of which is generated through relationships with contractors in the construction, industrial and mining industries.
ACID PROOFING
IAP provides a wide spectrum of industries with various types of acid proofing solutions. IAP’s aim is to provide its clients with permanent protection for all process equipment, large or small. Typical linings include:

• Acid resistant brick linings to acid towers, autoclaves, circulating tanks, reactors, pickling line tanks, acid storage tanks, leaching and flash vessels.
• Acid resistant brick linings to aggressive oxidizing floor areas, such as 98% sulphuric acid.
• Carbon brick linings to the phosphoric acid industry (Fertilizing Producing Plants).
• Flake Glass Linings to vessels and stacks.
• Industrial Tiling to floors in need of corrosion resistant products (Dairies, Butcheries etc).
• Hard wearing ceramic and granite linings (Transfer Chutes).
• Rubber Linings.
• Ceramic internals such as ceramic saddles, ceramic balls, ceramic blocks and beams.
• Self supporting ceramic domes and cross partition rings for absorption/drying towers.

IAP strive to design, procure/manufacture and install a desired lining system within budget and time constraints set out by the client, without compromising on the quality of the system. IAP ensures the highest standards of quality necessary. IAP do not make use of any sub-contractors in its specialized field of application.

Achievements include the construction of the two largest sulphuric acid plants in Africa (2010) as well as the first Pennguard® lining in Africa to the Medupi Power Station Stacks (2011) 210m high. IAP have built over 15 acid plants in total.

IAP have teams which are dedicated to maintenance and shutdown work with high standards on Project Management. IAP ensures the use of all latest application procedures, leading to efficient installation and minimal downtime periods.
INDUSTRIAL FLOORING
IAP focuses intently as a specialist applicator, dedicated to the flooring industry. Flooring requirements may coincide with the request for an acid protective coating or in many cases, simply to apply resilient flooring for factories and workshops. Special grades of resin for the pharmaceutical and food processing industries are available. IAP focuses on services typically requiring the following applications:

- Epoxy Flooring
- Polyurethane Flooring & Linings
- Anti-Static Flooring
- Conductive Flooring
- Decorative "terrazzo" finishes
- Car Parkade Flooring
- Ceramic Tile Floors

Design is crucial for the integration of a successful flooring system. IAP with its many years’ experience, are able to assist and design finer and technical areas with expansion/construction joints, wet conditions in trenches, sumps and with various temperature fluctuations.

One of IAP's many successful achievements is the installation of 55000m² of polyurethane flooring at the Ambatovy Nickel Mine in Madagascar (2010) as well as a 15000m² application at the Kibali Project in the DRC. An inspection was carried out in 2018 on these floors, showing no deterioration to the areas.

REFRACTORY
IAP holds many years’ experience in the refractory sector, particularly in the acid plant field. Acid plants usually require roasters, sulphur burners, SO₂ burners, converters and pre-heaters to operate. IAP have been lining these types of equipment with refractory bricks and castables since inception.

The longstanding partnership between IAP and STEULER – KCH of Germany, enables IAP to offer a complete package: from design stage, drawings, all the way through to construction and commissioning.

Typical installations of refractory products are required in the following Industries:

- Iron and Steel Industry
- Cement and Lime Industry
- Non-Ferrous Metals
- Hazardous Waste Incineration Plants
- Chemical and Petrochemical Industry
- Pulp and Paper Industry

CERAMIC EPOXY
IAP offer pump lining refurbishment services.

FLAKE GLASS LININGS
IAP supply and install various flake glass systems utilised mainly in the chemical industries and refineries. Systems used:

- Epoxy based
- Vinyl Ester based
- Modified epoxy/polyester based
RUBBER LININGS
IAP offer a wide range of professional rubber lining products, especially in extreme operating conditions and under higher temperature ranges. IAP stock a wide scope of products from the Steuler KCH range, which are one of the largest producers of rubber in the world. IAP specialises in quality inspections on all types of rubbers. All products are fully guaranteed and quality assurance is to ISO standards.

PLASTIC FABRICATION
IAP not only covers the "linings" fields of application, but also the production of Polypropylene pickling tanks, spray banks, specialized pipes, as well as other custom designed vessels. IAP covers the full design, from planning and production through to installation and commissioning.

The Plastic Linings cover industries typical for:

- HDPE CELLS for the base metal electrowinning
- Flue Gas Desulphurization Plants
- Lining of Tailing Dams
- Water Treatment
- Chemical Process
- Demin Plants

The most typical linings used in these areas are:

- Bolted Bekaplast Linings
- Bekaplast HDPE
- Bekaplast PP
In addition, IAP are the leading suppliers of:

- Various sizes of Acid Bricks
- Various Mortars
- Tower Internals
- Rhepanol

- Various sizes of Carbon Bricks
- Various Membranes
- Refractory Materials
- Ceramic Saddles
- Kerabutyl Rubbers
- Aludar Beams
- Ceramic Domes

**STEULER – KCH GERMANY**

IAP have been the exclusive agents for Steuler KCH in the Southern hemisphere for many years, and are able to supply all forms of Steuler products. Steuler, founded in 1908, is one of the world’s leading suppliers of linings. With this partnership, IAP and Steuler hold solid growth, innovative technologies and comprehensive solutions in all fields of acid proofing, affording its customers the security and long-term reliability of products, supported with comprehensive international quality assurance.

**POLYMERIC SUPERTANKS FOR THE MINING INDUSTRY**

IAP hold the sole rights and agency for the SUPERTANK® technology, providing the electro-winning industry with not only an alternative polymeric cell product, but also superior in lifespan.

The tanks are designed to maintain fully operating availability throughout the plants’ lifespan, maximising production of high purity metals.

**MASCOAT**

A ceramic insulator that is formulated to provide thermal protection for tanks, vessels, boilers, heat exchangers, steam lines, processors, vats, cookers, pressure valves, piping and other facility surfaces up to 190°C. This premium, multi-use product is a microscopic matrix of air-encapsulated ceramic particles, which are suspended in a high-grade acrylic binder. The coating’s high-tech formulation can be sprayed on as a combined paint and insulation system, improving equipment aesthetics while protecting substrates, safeguarding personnel and preventing corrosion.
In today’s competitive market, every company is looking for an advantage. There is also the increase in the call for Companies to “Go-Green” and reduce their Carbon Footprint. When it comes to steel, Pickling and Surface preparations are very important, should there be a subsequent coating process.

The conventional methods can be very costly, partially ineffective and in most cases not very environmentally friendly. An Eco-Phos Plant replaces the Conventional Pickling Plant with only one Treatment Tank filled with Eco-Phos Pickling Solution. Each tank has an integrated system, including jets, heating and filtration, which is custom designed to suit any requirement. Eco-Phos is inflammable, non-toxic and mostly odourless. An added benefit is no production of corrosive or acid vapours.

In only one treatment tank, pickling and phosphating can take place. The last drying step takes place in open air where the phosphate layer is produced. The longer the components are left to dry, the better the phosphate layer. Post-treatment, such as painting or powder-coating can then take place. The phosphate layer acts as a primer and aids in corrosion protection.

Eco-Phos is mainly used for the treatment of carbon steels, forged or cast steel products. After the Eco-Phos Pickling Process, the treated components are ready for the next step, be it fabrication or coating.

In a single step, Eco-Phos can clean and coat steel components without the additional steps required in the conventional pickling process.

ECO-PHOS has the following positive characteristics for industrial applications:

- No corrosive gases, therefore safe to use in closed areas.
- Space saving installation – 1 tank instead of 5 or 6 tanks.
- No MAC Values (Maximum Allowable Concentrations).
- No legislative requirements or approvals are needed.
- No Fume extraction needed in the workplace.
- ECO-PHOS works in a closed circuit.
- ECO-PHOS can be re-cycled.
- Lower waste disposal costs.
- Non-Flammable.
- Non-Poisonous.
CA Brand, associated to IAP, has been an active member in the construction industry for more than 35 years and is held in high esteem by its many high-profile clients. A medium-sized civil and building company that has the technical and project management skills necessary to take on a variety of projects.

Clients include mining houses such as Lonmin, Glencore, PAN African Resources and Anglo American, as well as related companies such as Consulmet and DRA Mineral Projects.

CA Brand pride themselves on the high repeat-work rate whereby clients request additional phases of a particular project to be carried out, based on performance.

The large scope of work has earned a Grade 7 CIDB rating for Civil Engineering as well as for General Building.

CA Brand Group is active in the following construction disciplines:

- **Civil Engineering**
  All types of concrete structures such as water purification plants, reservoirs, silos, bridges, machine bases and the like.

- **Commercial and Industrial building**
  Factories, Warehouses, Parking Garages, Offices, Hotels and other commercial or industrial structures.

- **Services**
  Sewers, storm water and water reticulation.

- **Turnkey**
  CA Brand offer a full turnkey service i.e. design, construct and project management. CA Brand looks forward to providing you with the same personal attention and quality construction enjoyed by present clients.
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