

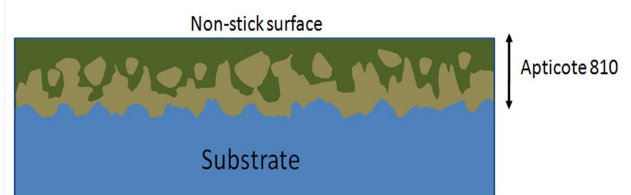
APTICOTE®

810

Composite non-stick coatings – tailored to your needs

Apticote 810 is the next generation of non-stick coatings, tougher, harder and with better release properties than conventional polymer coatings, and with a formulation that we tailor to the needs of your particular application.

Apticote 810 combines the Poeton thermal spraying and polymer technologies in a unique formulation, a process that solves the universal problem – ***‘How do you get a non-stick coating to bond to the substrate?’***



A specially formulated graded structure – designed to meet your specific requirements

The best non-stick coatings are relatively soft, and they are easily damaged, extruded or peeled off the substrate – too often they fail long before their potential life against a sticky product has been realised. By cleverly blending the two coating techniques in a graded structure, from the substrate through to the working surface, **Apticote 810** achieves a robust substrate bond, a tough, high load-carrying capacity coating and the optimum non-stick.

The coatings cost a bit more, but the benefits in longer life, reduced downtime and improved quality produce a large payback for the user.



Our commitment

We can tailor the **Apticote 810** formulation to your specific needs, using our extensive polymer coating range and our wide variety of thermally sprayed materials. Depending on your requirements – non-stick, low friction, wear resistance, corrosion protection, temperature resistance, USDA/FDA compliance, or combinations of those.

Our Commitment is to work with you to create the best possible coating system to meet your in-service requirements.

USDA/FDA Compliance

If the application demands USDA/FDA compliance, which is common, we will select or design an appropriate **Apticote 810** in which the polymer and undercoat comply with the regulations for contact with food or medical products.

Consult our website to see a list of our compliant coatings, which includes some primary grades of **Apticote 810**, and for a wider explanation of how compliance is handled.

Performance of Apticote 810

- Friction coefficient as low as 0.11
- Salt mist endurance up to 2000 hours
- Temperature range -200 to + 300°C
- Resistant to alkaline, saline and acidic environments
- Up to 10 times longer non-stick life than given by conventional polymer coatings
- 5 times the load-carrying capacity of conventional polymer coatings
- 5 times the wear and scratch resistance of conventional polymer coatings

Features of Apticote 810

- Non-stick to a wide range of products
- Protects the substrate from corrosion
- Wear resistant
- Chemical resistant
- High lubricity and low friction
- High temperature capability
- Tough, with high load carrying capacity
- Tenaciously bonded to the substrate
- USDA/FDA compliant

Some Apticote 810 successes

Dog bone moulds

An abrasive product, as well as being sticky, so that moulds were lasting only three weeks. **Apticote 810** gave a **4 fold increase** in the mould life and **doubled** the production rate

Dough hopper and knives

A food processing application, requiring strict FDA compliance. **Apticote 810** extended the clean-down period by **3-fold** and reduced dough consumption by **30%**

Chocolate

The product was so sticky that it peeled off conventional non-stick coatings in just two days of production. One of our **Apticote 810** coatings (FDA compliant) on the extrusion dies and fingers has **hugely extended** the life

Medical gauze

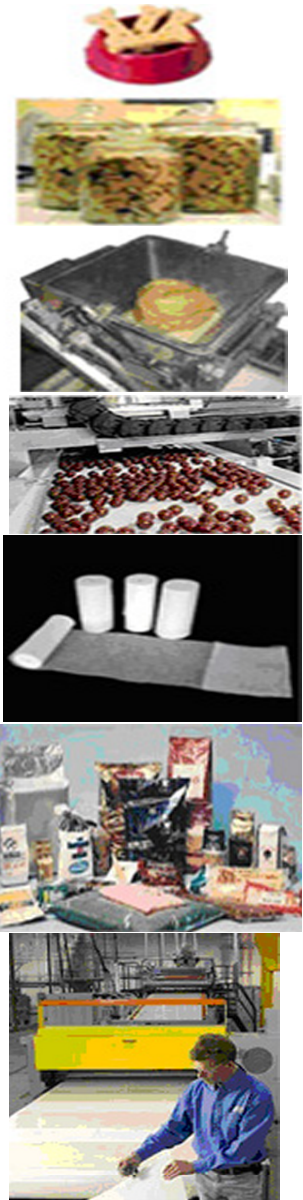
An abrasive medical product, as well as being sticky, cutting through stainless steel guides in just one production shift. **Apticote 810** reduced the friction, and lowered the wear by **10-fold**. Down time was reduced and the production rate was increased.

Packaging

Packages were pushed down a chute by an aluminium arm. Metal from the arm was adhering to the chute, creating a deposit that slowed the packing transfer rate. **Apticote 810** on the chute prevented the adhesive wear, eliminated the build-up and increased the transfer rate by **50%**

Doctor blades

Heated blades used in the manufacture of plastic sheet were suffering from severe wear and sticking problems, with plastic building up on the surface and staining the film. A high temperature version of **Apticote 810** eliminated the build-up completely, providing a massive improvement to the product quality.



Disclaimer

The information contained in this leaflet is intended for guidance only. Whilst every effort is made to understand the environment in which the coating is designed to work, success can only be determined by trials and in-service testing.



Poeton Industries Ltd,
Eastern Avenue,
Gloucester, GL4 3DN

NADCAP Accreditation is held by Poeton Industries Ltd with Poeton (Gloucester) Ltd Accredited for Plasma Spray (coatings) and Chemical processing, and Poeton (Cardiff) Ltd Accredited for Chemical Processing and NDT

For more information, please contact our Sales
or Technical Department, (44) 1452 300 500,
info@poeton.co.uk