POETON
EST. 1898

APTICOTE
FROM POETON

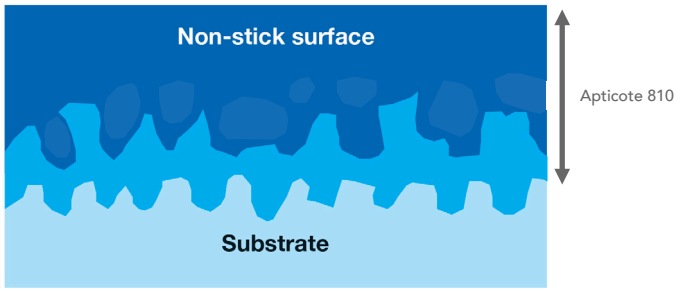
APTICOTE 810

PLASMA POLYMER COMPOSITE

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. By combining Poeton's thermal spraying and polymer 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 with optimum non-stick properties.

PERFORMANCE

- 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 10x longer non-stick life than given by conventional polymer coatings
- 5x load-carrying capacity of conventional polymer coatings
- 5x wear and scratch resistance of conventional polymer coatings



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

KEY FEATURES & APPLICATIONS

Primary features of Apticote 810 coatings include:

- 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
- Superb adhesion
- USDA/FDA compliant
- Longer product life
- Reduced production down-time

OUR COMMITMENT

Poeton 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 – Poeton can produce the right coating.

USDA/FDA COMPLIANCE

If the application demands USDA/FDA compliance, which is common, Poeton 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.

APPLICATIONS & SUCCESSES

FOOD MOULDS

ISSUE: An abrasive product, as well as being sticky, so that moulds were lasting only three weeks.

SOLUTION: Apticote 810 gave a 4 fold increase in the mould life and doubled the production rate.

CONFECTIONERY PROCESSING

ISSUE: The product was so sticky that it peeled off conventional non-stick coatings in just two days of production.

SOLUTION: One of our Apticote 810 coatings (FDA compliant) has extended the extrusion die life to several weeks.

MEDICAL GAUZE

ISSUE: An abrasive medical product, as well as being sticky, cutting through stainless steel guides in just one production shift.

SOLUTION: Apticote 810 reduced the friction and lowered the wear 10-fold. Down-time was reduced and production rate increased.

PACKAGING

ISSUE: 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.

SOLUTION: Apticote 810 on the chute prevented the adhesive wear, eliminated the build-up and increased the transfer rate by 50%.

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