



POLYMER COATINGS

The Apticote 200 range of coatings comprises high technology polymer-based formulations offering outstanding non-stick, mould release, low friction and low wear properties. They also provide superior chemical corrosion protection, even in the most hostile environments. And with full FDA compliance, they are particularly suited for applications in the food and medical sectors.

KEY FEATURES & APPLICATIONS

Apticote 200 coatings exhibit a wide range of complementary properties and possible applications:

- Low friction
- Non-stick
- Low wear
- Mould release
- Heat resistance
- Non-wetting
- FDA compliance
- Chemical resistance
- Pharmaceutical
- Packaging
- Food and drink
- Chemical, Oil & Gas
- Automotive
- Moulding
- Plastics and extrusion
- Paper processing

WORKING TEMPERATURES

The coatings can withstand operating temperatures in the range -200°C to +260°C. For the highest service temperatures we would recommend Apticote 200L, which can tolerate short periods at up to 285°C.

MOULD RELEASE

Apticote 200 is highly adept at releasing a whole variety of products from their mould tools/dies, from injection moulded polymers and composite materials, through to food stuffs and food packaging products.

As highlighted in the table below, each variant of Apticote 200 is able to solve a variety of issues. Please contact Poeton to discuss which coating option is the best solution for your project.

PROPERTY	APTICOTE 200 GRADE					
	200G	200N ^(a)	200B	200E/S	200L	200C ^(b)
Nominal dry film thickness (µm)	20	25 ^(c)	25	25	20	5-10
Colour	Green	Black	Black	Grey/Black	Green ^(c)	Clear
Deposition temperature °C	400	370	260-345 ^(e)	200/315	220-345 ^(f)	340
Max in-service temperature (continuous) °C	205	215	260	260/250	260	205
Non-stick/mould release (1 is best)	1	1	2	4	4	1
Low friction (1 is best)	3	3	2	1	1	1
Sliding wear resistance (vs steel pin) (1 is best)	5	4	2	1	2	5
Abrasion resistance (by SiC wheel) (1 is best)	3	1	2	2	3	5
Chemical resistance (1 is best)	3	1	4	1	3	1
FDA compliant	Yes	Yes	No	Yes	No	Yes
(a) - Powder coating - electrostatic			(d) - Other colours, including black, are also possible			
(b) - 200C is generally reserved for stainless steel substrates			(e) - With 200B, higher temperature cures give maximum wear resistance			
(c) - 200N can be built up to 50µm if application demands additional thickness			(f) - Optimum cure temperature for 200L is 240 °C			