

CALI-COAT

Cali-Coat is a specially developed coating for calibration and extrusion tools using the PVD (Physical Vapour Deposition) process. The coating gives prolonged life of the calibrator in both brass and steel by reducing surface friction and increasing the surface hardness (2000/3000Hv). This is also combined with a very high level of adhesion that avoids flaking of the coating.

Other benefits of the Cali-Coat P.V.D process are that the coating follows the geometry of the tool with no build up on edges, cavities or vacuum slots. It also gives a replica finish of polished areas on the tool and therefore no polishing is necessary after coating.

Technical Information:

Coating Thickness	6 - 25 microns
Hardness	2000-2500 Hv
Coefficient of Friction	0.4 Static
Max Operating Temp	650°C
Materials Coated	Brass and Steel
Colour	Silver
Deposition	Electron Beam PVD
Turnaround	5-7 Days
Chemical Properties	Inert, non toxic. Compatible with solvents, fuels and lubricant oils.

CASE STUDY

Application	uPVC Window Profile extrusion
Tool Materials	2316 70/30 Brass
Finish	Polished
Extruded Product	uPVC window grade
Previous Treatment	Hard Chrome Plate
New Treatment	Cali-Coat 25um
Results	
Previous Treatment	Average 17,000 m
Cali-Coat	100,000+ m

Applications

Extrusion Tools

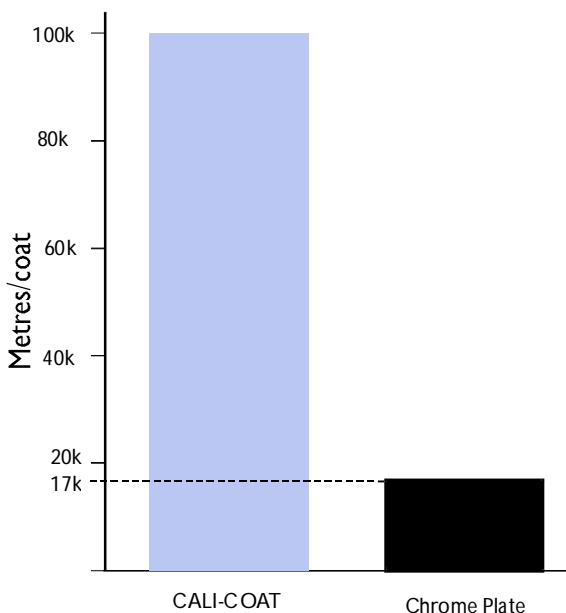
Calibration Tools

The principal application for the Cali-Coat process is the treatment of extrusion and calibration tools used in the uPVC profile industry. The coating greatly reduces wear on tools and die sets resulting in longer production runs and reduced downtime.

The sustained high finish on the tooling produces product with enhanced quality and the low wear characteristics of the coating enables dimensional accuracy of the product to be maintained over long periods.

Tecvac are also able to offer to strip coatings and recoat tooling using the Cali-Coat process.

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