Extreme Coatings SM

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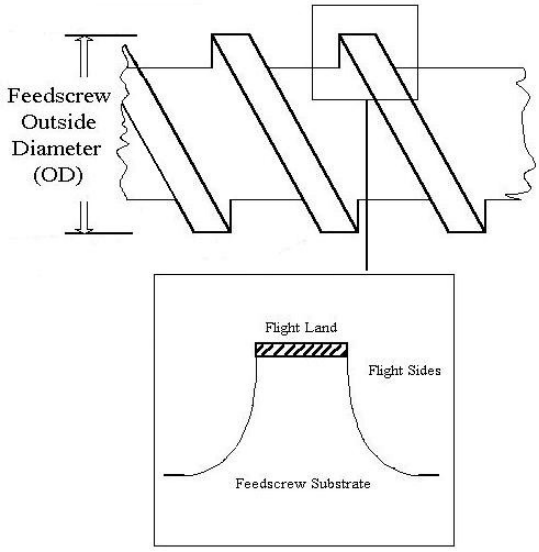
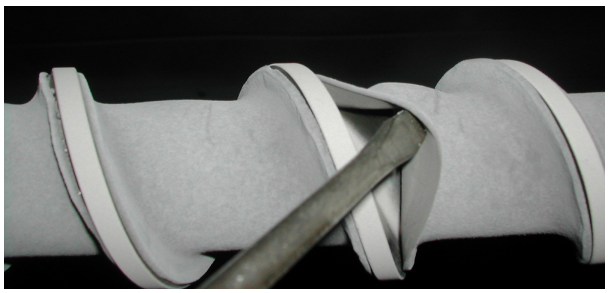
FliteGuard©

FliteGuard© is an ideal option where adhesive wear of the flight eventually causes a reduction of through-put and pumping rate. Extrusion processes are especially sensitive to feed screw wear at the outside diameter. Doubling the screw to barrel clearance can reduce output and melt rates up to 25 percent.

Extreme Coatings has developed the unique capability to protect just the outside diameter of a feed screw with our 88% tungsten carbide material. We mask the root and flight sides and apply material to just the wearing portion of the screw, the flight land. This has the potential to prolong the life of a feed screw from three to ten times compared with less wear resistant hard facing.

Coating is applied over standard hard facing up to .010" per side thickness or .020" overall (0,25 mm/side or 0,5 mm overall). FliteGuard© is recommended for polymers that contain *no abrasive fillers*. FliteGuard© is also a great option to recondition worn tool steel feedscrews.





HVOF Masking Compound

An example will highlight the benefit of protecting the screw outside diameter. A high fill, highly abrasive extrusion process has a significant output loss after 60-70 days of operation. A rebuilt feed screw was coated, installed and ran for 210 days to the same output reduction. This is a three-fold increase in screw life. More importantly, the coated feedscrew produced 15% more product over its service life. This output gain is the direct result of better protection of the screw outside diameter.