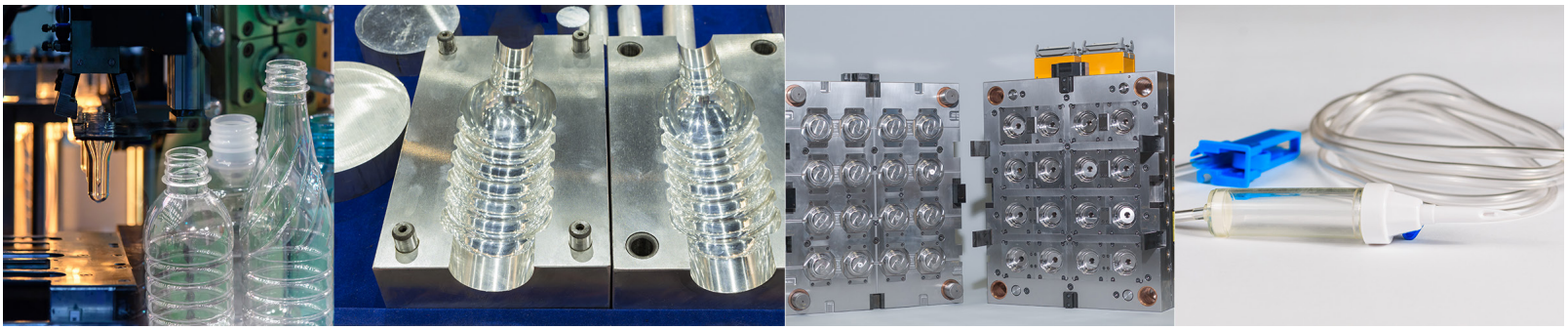
CVD Coatings for Plastics Molding

SilcoTek® is helping customers in the plastics molding industry solve their surface problems successfully by using our Dursan® coating technology on their metal molds.

Dursan is a chemically inert silicon-based coating that improves the release, corrosion resistance, and durability of molds, leading to less maintenance and more production uptime.



Benefits of Dursan® in Plastic Molding Applications

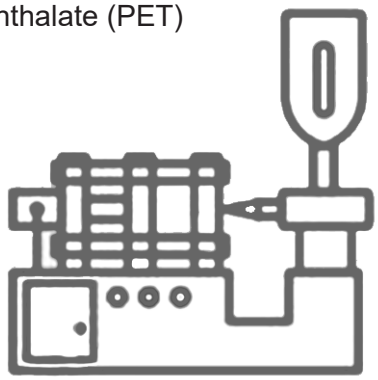
- **Improve release of molded parts** - Dursan's low surface energy releases your molded parts easily for higher yields and longer production uptime.
- **Promotes corrosion resistance** - Dursan protects your molds from potential damage and costly replacement.
- **Replace temporary spray-on mold release agents** - Dursan has long lasting durability as it is chemically bonded and molecularly diffused into the mold surface.
- **Eliminate post-process cleaning of molded parts** - Dursan does not flake or transfer onto molded parts due to its excellent adhesion properties.
- **Maintain existing tolerances and surface finishes** - The Dursan coating process results in less than 2 microns of thickness, leaving critical dimensions and finishes unchanged.
- **Safe to use** - The Dursan coating technology is certified by NSF International and therefore is FDA compliant.

Plastic Molding Applications Using Dursan®

Plastic Materials

SilcoTek's Dursan coating has shown excellent release properties with:

- Polyethylene Terephthalate (PET)
- Polyurethane (PU)
- Polypropylene (PP)
- Pebax
- Nylon



Mold Substrates

Dursan can be successfully coated onto metals such as stainless steel, carbon based steel, tool steel alloys, and aluminum.

Molded Product Applications

Contact us to discuss your molded product application. Current applications of Dursan coated molds include:

- Medical Devices
- Medical Testing
- Food and Beverage Containers
- Consumer and Industrial Products

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