

PVD Coatings for Plastic Injection Molds



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Our PVD coatings were specially developed to reduce friction, increase surface hardness, and reduce wear on all plastic injection molds, dies, inserts and extractors. Besides increased tool life, the coatings allow longer maintenance cycles and faster tool changes.

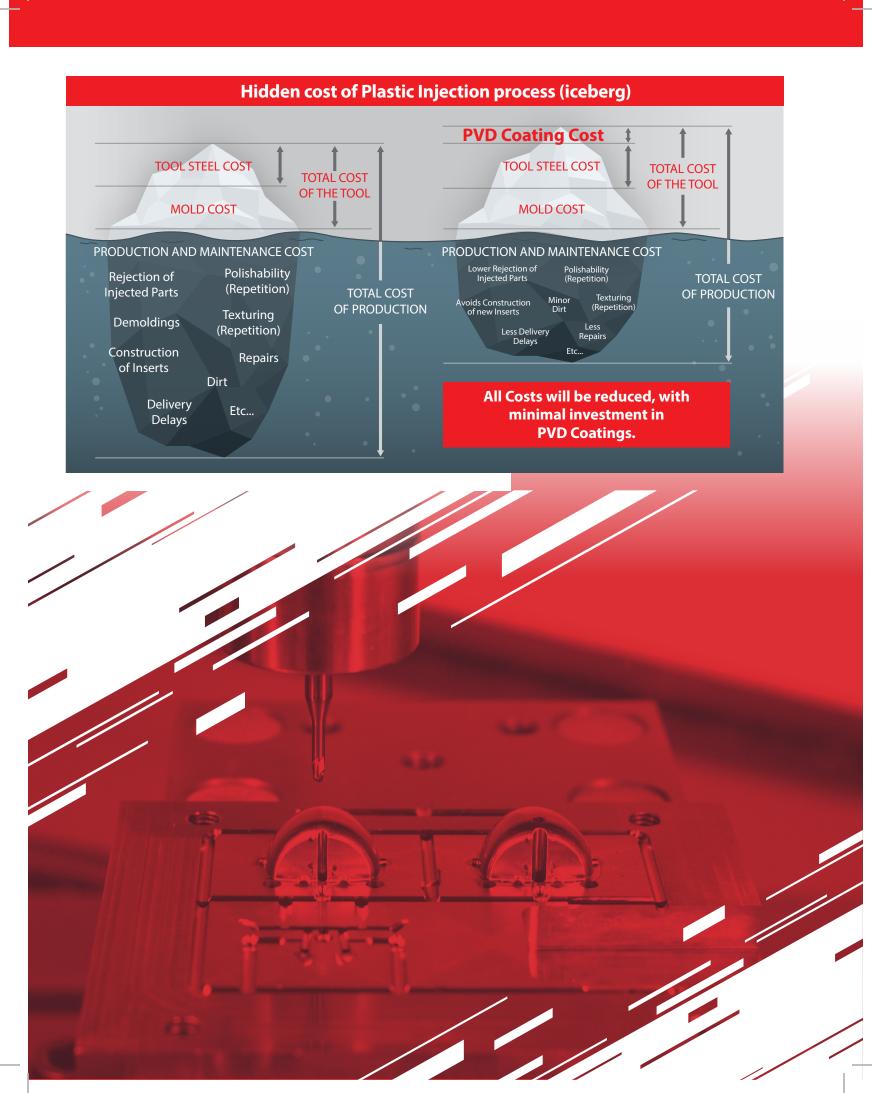
With over 30 years of experience of coating molds and dies, our R&D center has been developing high performance coatings dedicated to Plastic Injection.

Coatings TiN* **HP Form** HP Dura** HP Cera*** Composition AICr Based TiN TiAIN Based Cr Based Hardness 30 GPa 37 GPa 38 GPa 30 GPa (GPa) CHARACTERISTICS **Coefficient of friction** 0.25 0.4 0.33 0.1 (dry against steel) **Coating thickness** 3.5 ~ 4.5 μm 4 ~ 6 µm 4 ~ 6 µm 2.5 ~ 3.5 μm (um) Maximum oxidation 500°C 800°C 1,100°C 550°C temperature (°C) **Coating deposition** 200° C 200 °C 450° C 450° C temperature (°C) 450º C 450° C **Coating Color** Gold Violet Dark Grey Dark Grey Coating Monolayer Multilayer Multilayer Multilayer structure PE, PP, PB 0 . -PS, SB, SAN, ABS, ASA \bigcirc 0 Ο PVC 0 \bigcirc _ _ PTFE, SPTFE, PVDF 0 \bigcirc Ο 0 РОМ 0 -**RECOMMENDED APPLICATIONS** 0 \bigcirc PA 0 \bigcirc PC, PBT (B), PET (P) --PPE, PEEK, PAEK / PPS, PSU, PES \bigcirc --PI 0 \bigcirc CA, CP, CAP _ 0 _ \bigcirc 0 \bigcirc РММА _ - \bigcirc \bigcirc TPU -O - \bigcirc \bigcirc EP UP \bigcirc \bigcirc MF, UF, MP \bigcirc 0 PUR --0 0 NBR, EPDM, Si _ -Multipolymer TPE, FPM 0 --

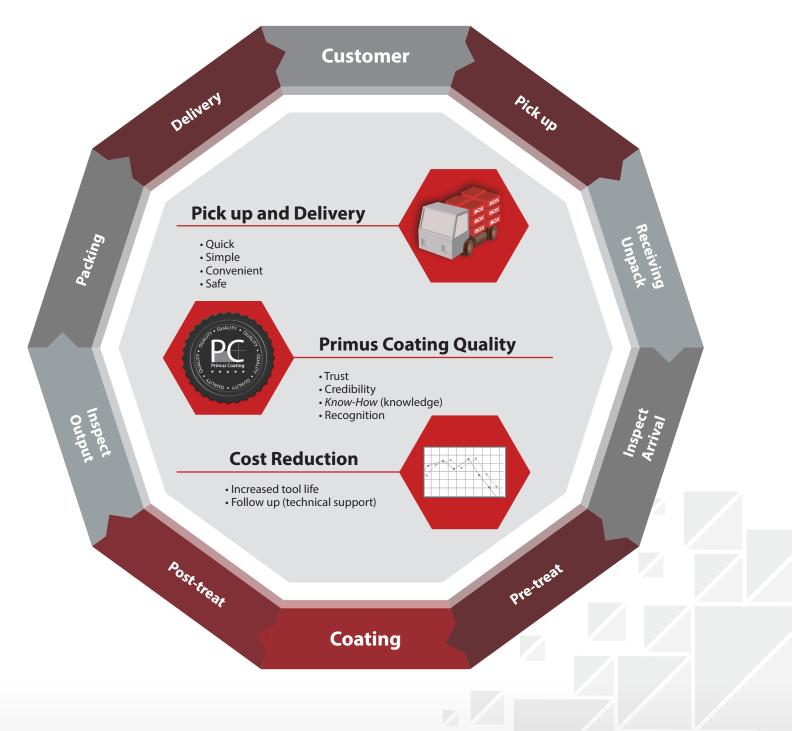
SPECIFICATIONS AND APPLICATIONS OF PRIMUS COATING FOR PLASTIC INJECTION MOLDS AND DIES

[•] Available in Low Temperature.

** Duplex coating available (Nitride + Coating), for more information, please contact our sales department. The depth of nitriding will depend on the material of the mold. 🔘 Excelent 🔾 Good



PRIMUS COATING QUALITY ASSURANCE





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