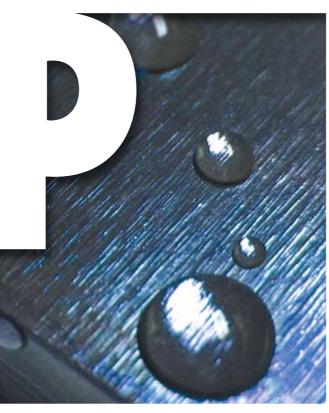
NovoPlan

The Coating Experts





Quality

Perfection

Expertise

Consulting

PlanoTek® Functional layers

for plastics processors, injection moulders, tool and mould makers and mechanical engineers





For more than 20 years, NovoPlan has been the coating experts for functional electroless nickel layers. By coating with PlanoTek®, we provide your tool surface with the right function for every application.

Demoulding aid & scale inhibition

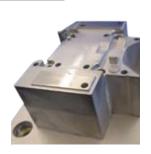
PlanoTek CNPTFE 30-35/45-50* HRC PlanoTek CNA 180 HV/27* HRC PlanoTek CNB 45-50/60-65* HRC



- Processing of soft thermoplastics (TPU, ABS, PP) and elastomers (silicone, LSR)
- Production without mould releasing agents

Typical layer thicknesses 3-10 µm**

Demoulding aid + wear protection



- Processing of specialized engineered polymers and highly filled plastics (PPS, PBT, POM, PEEK, PA, ...)
- Production without mould releasing agents

Typical layer thicknesses 3-10 µm**

PlanoTek CNBV 54/70* HRC

Slide and mechanism coatings



- Substitute for conventional lubrication
- Dry running of moving parts

Typical layer thicknesses 3-10 µm**

PlanoTek CNB 45-50/60-65* HRC



Wear protection

PlanoTek HCN 62-63/70* HRC PlanoTek CNV 50-52/72-74* HRC

- Processing of abrasive, highly filled plastics, thermoset plastics
- Protection against hot gas corrosion during plastic processing
- Protecting »soft« materials, such as copper/aluminium alloys

Typical layer thicknesses 3–20 µm**

Protection of polished surfaces



- Surface protection for mirror finishes
- Base layer for mirror finishes

Typical layer thicknesses 3-20 µm**

PlanoTek HoCN 58-60/72-73* HRC

Corrosion protection



PlanoTek KSCN 48-52/72-74* HRC

- Processing of aggressive plastics
- Protection against damp climate, hand perspiration
- Protecting the temperature control system (close-contoured cooling systems, e.g. laser-sintered, joined)
- Ultra-precision machining/diamond turnable

Typical layer thicknesses 3-30 µm**

Repair



- Correction of measurements to final dimension up to 300 μm
 - Alternative to manufacturing of new components

PlanoTek HCN 62-63/70* HRC PlanoTek HoCN 58-60/72-73* HRC

Benefits



Coating temperature

distortion-free max. 90°C

Separation

- contour accuracy
- no edge build-up
- coplanar, even in holes, slots and indentations

Functional surface properties

engineered material properties

Coatable materials and surfaces

- Steel (hardened, plasma nitrided), copper, aluminium, sintered metal, etc.
- Surface structures remain unaltered

Reworking

• Grinding, eroding (EDM) and polishing

Partial coating

masking is possible

Layer removal/recoating

routine operation

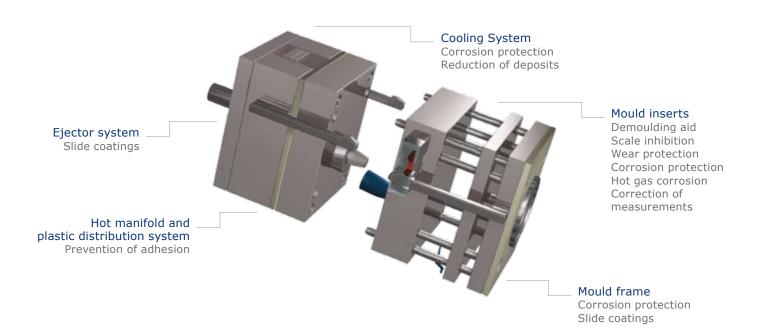








... for your tool system.



... for your sector.







Automotive

Electrical engineering

Aerospace

Medical engineering

Packaging technology



NovoPlan Services.

- 1. Customer portal
- 2. Process recommendations
- 3. Technological expertise
- 4. Express coating
- 5. Customer seminars
- 6. Specialist advice on site
- 7. Research and development





NovoPlan GmbH

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