PlasmaCoat®

metallic coatings and combination coatings for highest requirements



surface technologies The safe and trouble-free handling of materials or With PlasmaCoat®, high-quality metal coatings and cesheet products made of plastics, textiles or paper re- ramic coatings are produced by thermal spraying. The quires transport rollers and other components with highest surface hardness improves wear protec-tion and wear-resistant traction surfaces, which must also have extends the life cycle of mechanically highly stressed non-stick and conductivity properties, depending on components. In addition, excellent non-stick properties the application. Aalberts surface technologies offers a or extremely wear-resistant anti-friction properties can variety of perfect coatings with the PlasmaCoat® process. These are applied by thermal spraying, be applied to almost all metallic materi-als and also to PlasmaCoat® combines the extreme surface hardness CFRP materials. PlasmaCoat® can also replace hard and excellent wear protection of thermally sprayed met- chrome coatings when mechanically reworked. al or ceramic coatings with the non-stick and anti-friction properties of fluorinated polymers as a matrix. The adjustment of different roughnesses and profiles leads to the desired traction properties.

be achieved with a topcoat. PlasmaCoat[®] coatings can

PlasmaCoat®	process details
Applications	sealing and sliding seats of motor rotors, gear shafts and pinion shafts, bearing bores, running surfaces of piston rods, sealing strips, seats of axles and shafts, valve spindles, roller surfaces, shaft protection sleeves, gears, pins, cylinders and cylinder liners, etc.
Coatable base materials	aluminum, steel, stainless steel, cast iron, brass, copper, aluminized steel
Pre-treatment	degassing, sandblasting, degreasing
Properties	excellent non-stick properties with high wear resistance and traction (round- or sharp-edged structure)
Performance characteristics	layer thickness: 80-300 μm abrasion resistance: very good hardness (scratch resistance): 28-70 HRc bending strength: good, radius 6 mm without cracking
Service	We find the optimal coating process for your components based on an individual consultation. From the first sampling to the introduction into series production, we define the relevant production steps together with you. On request, we can also supplement our technical services with a logistics concept tailored to your needs, including pick-up and delivery services.