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Surface and Coatings Technology is an international archival journal publishing scientific papers on surface and interface engineering to modify and improve the surface properties of materials for protection in demanding contact conditions or aggressive environments, or for enhanced functional performance

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rosion begins from the surface, fatigue cracks propagate inwards from the surface and wear also occurs on the surface [1] Surface coating is a typical method of surface engineer, and it plays an important role to improve the service performance of components Composite electroplating, as a …

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or surface roughness can play a major role in the effectiveness and efficiency of the cold spray deposition process for polymers 1 Introduction Cold spray is a solid-state coating process that uses a high-speed gas jet to accelerate solid powder particles toward a substrate [1,2] Upon

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deposition However, the adhesion was poor Fig 1 shows the cross-sectional morphology of the failed interface in the TiAlN/DLC multi-layered coating and the magnified images of the coatings that did not

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successfully prepared Ti–Ni intermetallic coatings on the surface of a Surface & Coatings Technology 291 (2016) 43–53 ⁎ Corresponding author at: College of Materials Science and Technology, Nanjing University of Aeronautics and Astronautics, Yudao Street 29, Nanjing 210016, PR China E-mail

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Surface & Coatings Technology 307 (2016) 610–621 Abbreviations: 1050A, high purity industrial aluminum alloy; 6082, industrial Surface & Coatings Technology journal …

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Superhydrophobic surface fabricated by spraying hydrophobic R974 nanoparticles and the drag reduction in water Chujiang Caia,b,⁎, Nannan Sanga, Sicong Tengc, Zhigang Shena, Jiang Guob, Xiaohu Zhaoc, Zhanhu Guob,⁎⁎ a Beijing Key Laboratory for Powder Technology Research and Development, Beihang University, Beijing 100191, PR China b Integrated Composites Laboratory (ICL), Department of

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on 2024 aluminum alloy and concluded that the surface layer of coat-ingsmainlycontainedγ-Al 2O 3 andthepercentageofα-Al 2O 3 gradually increased from the external surface towards the inner layers of the coat-ings Applying higher current densities [11,12,26] and increasing the deposition time which resulted in thicker coatings [21,27] were

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V Dehnavi et al / Surface & Coatings Technology 226 (2013) 100–107 101 maximum voltages were 424 and 532 V respectively, while for a duty cycle of 10% the corresponding numbers rose to 594 and 759 V,

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Zn-based coatings due to their durability, cost-effectiveness and strong corrosion resistance are considered as the main protective coatings on a wide range of automotive-compatible steels [22–24] Therefore, Zn-based coatings are considered as a viable alternative for PHS due to their ability to be welded without affecting fusion zone (FZ)

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the available surface energy, which acts as a driving force during sin-tering The greater surface area per unit volume provided by smaller particles results in a higher surface energy and a faster sintering process [18] SEM analysis indicates the presence of two different types of …

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of the sample surface were measured and the average value of all the readings was used A still camera was used to capture the image of the water droplet 24 Electrochemical testing U Riaz et al Surface & Coatings Technology 344 (2018) 514–521

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drophilic, bioactive or other functional coatings have been studied in-tensively in the last decades However, one of the most active research fields is the improvement of surface properties for adhesion enhancement Indeed, the nature of the surface functionality plays a significant role on the final surface properties Adhesion improve-

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The surface quality (surface roughness, surface defects, impurities, etc) of CdZnTe material is an important factor affecting the perfor- mance of the detector device

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Fig 1 The vapor deposition approach used to deposit yttria stabilized zirconia and samarium zirconate coatings The coatings were deposited on 254

mm diameter, 32 mm thick Hastelloy-X substrate with a smooth (polished) NiCoCrAlY bond coat at a temperature of 1000 °C 4356 H Zhao et al / Surface & Coatings Technology 205 (2011) 4355–4365

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Surface treatment and coating are widely used to enhance the performance and wear life of industrial compo- nents However, the development of high performance wear protective coatings for sports equipment is still a

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more recently used as an alternative deposition method because of its low cost and high quality deposits, which have oxidation rates at high temperature at the same level or even lower than those of similar VPS

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tructured surface is generated with nanotwins and nanograins near the surface Since the strain rate decreases with distance from the surface the grain size increases and the twin density decreases from the surface to the center of the sample where the 304 stainless steel is …

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Thus, there is an increased interest to improve copper surface properties by employing surface coatings [7] Numerous methods have been de-veloped to produce surface coatings on copper, including internal oxi-dation [8], chemical vapor deposition [9], electrodeposition [10], pack cementation [11], high velocity oxygen fuel (HVOF) spraying [12],