

PARTICULARITIES OF THE PAINTING PROCESS IN THE AUTOMOTIVE INDUSTRY

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Rezumat. De cele mai multe ori vopseaua de pe autoturisme este considerată un lucru ce nu necesită o atenție deosebită fiind asociată doar cu aspectul plăcut al caroseriei. Vopseaua automobilelor este un produs chimic complex, rezultat al unor procese tehnologice complicate, și totodată este cel mai "torturat" element ce-l deține orice automobil, având în vedere fenomenele naturale: soarele (canicula), grindina, ploaia, ninsoarea, praful. De aceea, vopseaua constituie una dintre principalele caracteristici avute în vedere de client atunci când decide să cumpere un autoturism. În această lucrare se prezintă totalitatea activităților desfășurate în vederea asigurării calității în cadrul procesului de vopsire a automobilelor și importanța vopselei pe caroserie. Sunt identificate defectele ce pot apărea în urma procesului de vopsire, defectele din aval, datorate montajului pieselor pe caroseria vopsită, și sunt propuse recomandări cu privire la prelungirea duratei de viață a vopselei și eliminarea acestor defecte.

Abstract. Most of the times, the paint on the cars is considered something that does not require special attention. It is usually associated only with the pleasant appearance of the care. The paint on an automobile is a chemically complex product, the result of a long and complicated technological process. At the same time, it is the most "tortured" element of a car: it has to perform at the highest standards in sun, hail, rain, snow, dust. Therefore, the paint job is one of the most important features a client takes in consideration when buying a car. This paper presents the totality of steps taken towards achieving a paint job of the highest quality. It also states the importance of paint on a car body. The defects that may appear as a result of the painting process are identified, as well as the downstream defects that occurred due to the assembly of parts on the painted car body. Recommendations regarding the elimination of these defects and the extension of paint life are made.

Keywords: Automotive, Quality, Painting process, Defects, Retouching.

1. Introduction

In a very competitive industry such as the automotive industry, quality is what makes the difference. When we want to deliver a product on the market, it is very important to think about what the customer wants: a vehicle with an attractive

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