

PENGARUH VARIASI PENGGUNAAN *ACTIVATOR* HASIL *WATER TRANSFER PRINTING FILM* TERHADAP KEKILAPAN CAT DAN LEVEL LEKAT PADA BODI SEPEDA MOTOR BERBAHAN *ACRYLONITRIL BUTADIENA STIREN (ABS)*

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ABSTRAK

Pengecatan *water transfer printing film* merupakan salah satu metode pengecatan yang dapat meringankan kerja manusia karena tidak perlu pencampuran cat, tidak membutuhkan waktu yang lama, tempat ruang oven dan tidak perlu jarak yang teratur dan biayanya yang tidak terlalu mahal, tidak membutuhkan waktu yang lama serta dapat mengurangi biaya pengecatan dan dapat menjangkau ke tempat yang sulit atau rumit. Faktor-faktor yang mempengaruhi kualitas pengecatan adalah bahan yang digunakan, serta keahlian dalam mengecat. Penelitian ini meneliti tentang daya lekat dan daya kilap cat dengan variasi aktivator yang diterapkan pada bodi kendaraan ABS. Penelitian daya kilap cat dilakukan di PT Mataram Paint Surabaya. Hasil pengujian daya lekat cat rata-rata semua komponen memiliki daya lekat yang baik dan termasuk dalam kelas 5B, 4B dan 3B. Hasil pengujian nilai daya kilap terendah sebesar 80,22 GU terdapat pada aktivator Wf 05 Samurai, sedangkan nilai daya kilap tertinggi sebesar 85,37 GU terdapat pada aktivator Legato. Semakin tinggi kadar *nitroselulosa* dalam cat menyebabkan nilai daya kilap semakin rendah namun daya tahan cat terhadap goresan dan intensitas warna meningkat. Sebaliknya semakin rendah kadar *nitroselulosa* dalam cat maka nilai daya kilap semakin tinggi, namun daya tahan cat terhadap goresan menurun.

Kata kunci: Water Transfer Printing Film, Aktivator, Acrylonitril Butadiena Stiren(ABS).

The Influence Of Using Activator Variations Of Water Transfer Printing Film
Results On Paint And Click Handling In Motorcycle Body Based On

Acrylonitril Butadiena Stiren (Abs)

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ABSTRACT

Painting water transfer printing film is one method of painting that can lighten human work because it does not need mixing paint, does not require a long time, the oven space and does not need a regular distance and the cost is not too expensive, does not require a long time and can reduce the cost of painting and can reach difficult or complicated places. Factors that influence the quality of painting are the materials used, as well as expertise in painting. This research examines the adhesion and gloss power of the paint with activator variations applied to the vehicle body of ABS. The paint gloss research was conducted at PT Mataram Paint Surabaya. The average paint adhesion test results of all all components have good adhesion and are included in classes 5B, 4B and 3B. The test results of the lowest gloss value of 80.22 GU are found in the Samurai Wf 05 activator, while the highest gloss value of 85.37 GU is found in the Legato activator. The higher levels of nitrocellulose in the paint causes the value of gloss to be lower but the resistance of the paint to scratches and color intensity increases. Conversely the lower levels of nitrocellulose in paints the lower the value of the higher gloss power, but the resistance of paint to scratches decreases .

Keywords: Water Transfer Printing Film, Activator, Acrylonitril Butadiena Stiren (ABS)