

**THE EFFECT OF THE RATIO OF EPOXY PRIMER AND THINNER ON THE
LEVEL OF ADHESIVE BODY PAINTING OF ENERGY-SAVING CARS IN
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ABSTRACT

The car is a means of transportation that is widely used in the modern era as it is today. In Indonesia itself, the majority of energy sources used for vehicles, especially cars, still use fossil energy. The problem that will be faced in the following years is the significant reduction in oil reserves if the management of the oil and gas sector is not controlled and regulated properly and wisely. in Indonesia currently use several choices of types of Pertamina fuel for gasoline motorbikes, including Premium and Pertamax. Gasoline Motors are Power Generation Machines That Convert Gasoline Fuel Into Thermal Power And Finally Into Mechanical Power. Broadly speaking, a gasoline engine is composed of several main components including the cylinder block, cylinder head, crankshaft, piston, connecting rod, flywheel, camshaft. cam shaft), and valve mechanics.

The composition of the thinner and epoxy mixture has an effect on the adhesion of the painting results. Thinner is an addictive substance that functions as a thinner for paint. The coating process is carried out using the 3-layer method on one medium which is carried out in a spray booth (painting room). the time used during the drying process in each layer is 3 minutes per 1 layer. The composition of the epoxy and thinner mixture used is 1:0.5, 1:1, 1:1.5. The composition of the epoxy and thinner mixture that produces the best adhesion value is the ratio of epoxy and thinner 1:0.5 and 1:1 with an average

value of GT 1 compared to a ratio of 1:1.5 which has a lower value, namely GT 2 The painting process uses a different composition of the mixture which greatly influences the quality of the painting results.

Keywords : *Paint Coating, Paint Mix, stickiness.*