

Study about recycling of improved asphalt

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This study was conducted for the review of recycling method of improved asphalt that was used for fluidity resistance measurement as well as for drainage pavement. Improved asphalt is produced by adding rubber and thermoplastic resin into asphalt, and it is important to understand the influence of these additives upon using, in the case of recycling. It is possible that test method and compound design for the traditional straight asphalt cannot be used as they are, as a result of influence by such additives; therefore, research has been conducted about property when recycling and concept for compound design.

As a result, it was revealed that recycled aggregate that contained improved asphalt could be generally recycled without any problems for close-graded mixture, and that the better property was shown compared to the normal recycled aggregate in many cases. However, when using for open-graded mixture, it was revealed that compound design was difficult, and that property variation could possibly increase. The need for decreasing additive amount was revealed in the case of recycling it into such mixture.

Keywords: recycling, improved asphalt, drainage pavement, recycled aggregate