

A STUDY ON THE APPLICABILITY OF MOLTEN SLAG TO PAVEMENT MATERIALS

Abstract : Recently, the development of the recycled resource such as molten slag is active in the background of effective use of the resource and the depletion of the final disposal dump, etc. Especially, the development of the technology used for the pavement of those recycled resources is active. Using these recycled resources comes to recycle certainly. However, whether it has contributed to the environmental load decrease in total until abandoning since using these manufactures it is not clarified. Then, the evaluation method was made to evaluate the environmental friendliness of pavement used waste materials. The calculation program was made to assist the execution of the evaluation method. Various environmental conditions in the life cycle of the pavement material were arranged to examine environmental requirements of the pavement material. Various waste material pavement namely molten slag, scrap tire and waste plastics pavement were evaluated by the environmental evaluation method.

Key words : Asphalt, Pavement, Recycle, Molten slag, Scrap tire, Waste plastics, LCA