APPLICATION OF COPPER SLAGAS OPTIONAL FILLER IN MICROSURFACING

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ABSTRACT

Copper slag is generated during pyro metallurgical production of copper from copper

ores contains materials like calcium oxide, iron, alumina, silica etc. for Pertonne of metal

production about 2.2 ton of slag is generated. In this research experimental investigation is carried out to analyze

suitability of copper slag as alternative filler for an option of cement in microsurfacing. Microsurfacing is a one of

the preventive maintenance technique extensively used, in India. The present paper describes results of experimental

investigation of microsurfacing mix obtained by using alternative filler as copper slag as a substitute of OPC. In this

experimental investigation breaking time of the emulsion, the cohesion and the abrasion resistance of

microsurfacing material with copper slag as filler is examined. The outcomes show that copper slag can be suitable

alternative filler for microsurfacing technology as compare to OPC. The use copper slag as alternative filler, make

microsurfacing technology cost-effective and environmental friendly.

KEYWORDS: Copper Slag, Slurry Seal, Micro Surfacing