

**A STUDY OF GEOTEXTILES IN ROADWAY  
CONSTRUCTION AT TANJUNG KARANG – KUALA  
SELANGOR HIGHWAY**

**By:**

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## **ABSTRACT**

The study was conducted to determine the types of geotextile products used in the roadway construction of the Tanjung Karang – Kuala Selangor highway together with its specification. The study gathered two types from survey and interview to the project contractor, geotextiles manufacturer and the government. The project contractor was being asked about types of geotextile product used for the highway and method of installation, the geotextile manufacturer was being asked about the specification of geotextiles materials used for the highway. While the government was being asked on minimum requirement of specification of geotextiles material used in such highway construction.

From the interview and survey it shows that the main manufacturer of geotextiles material used in the Tanjung Karang – Kuala Selangor highway construction is the Emaskiara Sdn. Bhd. and types of geotextiles used are the combination of geogrids-geotextiles (geocomposites) and geotextiles itself from both non woven and woven fabrics. This is because both types are applied on different position of the construction.

## **CHAPTER 1**

### **INTRODUCTION**

#### **1.0 BACKGROUND OF STUDY**

Textiles fulfill so many purposes in our lives that their study can be approached in a number of ways. Each day each of us makes decisions about textiles. From the simplest choice of what clothes to wear to the commitment of a major portion of the family budget to buy a new carpet, judgments about the performance, durability, attractiveness, and care of textiles are consciously or unconsciously made. The economic implications of decisions about fibers, yarns, and fabrics obviously increase if someone is involved professionally with textiles. Textiles may be seen as being purely utilitarian, in relationship to the numerous purposes they serve. When we wake up in the morning, for example, we climb out from under sheets and blankets and step into slippers and a robe. We wash our faces with washcloths, dry them with towels, and put on clothing for the day. Even the bristles of our toothbrushes are made from textile fibers. If we get into a car or bus, we sit on upholstered seats; the machine moves on tires reinforced with strong textile cords. We stand on carpets, sit on upholstered furniture, and look out of curtained windows. The insulation of our houses may be glass textile fiber. Not only are