Accidents, that have occurred in the flotation tailing dams in the past, are certainly an alarm for the application of modern methods and techniques, with modern materials, in order, to protect the environment from the flotation tailing dams and continuous disposal of the floating tailing. However, at certain flotation tailing dams there are still certain issues that have to be resolved. Moreover, the basic problems that adversely affect the quality of the environment arise from the organization of the tailing disposal system. Design of modern flotation tailing dam nowadays is a very current issue, primarily because of the fact that this project would solve many important issues regarding environmental protection (controlled disposal and maximum possible reduction of environmental impact). Modern materials that have wide application for this purpose are geosynthetic materials. The most commonly used geosynthetic materials are: geotextiles, geomembranes, geogrids, geochemicals, geosynthetic clay layers, geocomposites, etc.

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THE USE OF GEOSYNTHETIC MATERIALS IN THE DESIGN OF TAILINGS FOR THE INCREASED PROTECTION OF THE WIDER ENVIRONMENT

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