



Projekt: Compatibility with Groundwater of the Sealing Materials WADIT and WADIT COMPACT

Dear Mister and Misses,

on 19.10.2000 you asked by telephone, if it is possible to use the sealing material WADIT in water protection area (restricted part of catchment area III). This we comment as follows:

The LGA examined the sealing materials WADIT and WADIT COMPACT in the year 1997 by through elution and migration tests in accordance with the KTW recommendations¹ regarding its compatibility with groundwater. The eluate samples were analysed for the parameters pH value, conductivity, dissolved organic carbon (DOC), phenol index, polycyclic aromatic hydrocarbon and examined by daphnia test and luminescent bacteria test. The examinations led to the result that from both sealing materials no considerable pollutants are elutable. The pollutant concentrations of the eluates remained for both sealing materials below the relevant guide value for harmless concentrations (here level 1 of the Bavarian State agency for water management [Stufe-1-Wert des Bayer. Landesamts für Wasserwirtschaft]). Only the phenolconcentration of one eluate sample for WADIT COMPACT exceeded the level 1. A comparison with the acceptable levels (Prüfwerte) of the German federal regulation of soil protection (BBodSchV = Bundes-Bodenschutz- und Altlasten-

¹ FRANCK, Plastics – 23rd issue ff., Recommendations of the Working Group on "Drinking Water Matter" of the Plastic Commission of the Federal Ministry for Consumer Health Protection and Veterinary Medicine (previously BGA)
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tenverordnung; effective date 17.07.1999) shows also no exceeding of the acceptable levels. Also the biotests gave no indication of negative influence of the eluates (contactwater).

The expertises of LGA come to the conclusion, that the sealing materials WADIT and WADIT COMPACT can be used without restriction for sealant in sheet piling locks in ground- and surface water. With intendend use therefore also no concern of harmful effect exists with the application in the catchment area for drinking water extraction plant.

Independantly of this we recommend to receive the official approval of the responsible agency (water authority, environment authority) before this materials will be used.

Sincerely yours

LGA - Bauen+Umwelt

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