

Press release

marketing communication

TenCate Geosynthetics publication awarded by Institution of Civil Engineers

The Institution of Civil Engineers (ICE) in the United Kingdom has awarded TenCate Geosynthetics for the article “Modelling the geotextile tube dewatering process” in Geosynthetics International Magazine. This publication was chosen as one of three best papers.

The paper details the geotextile tube dewatering process, which consists of multiple cycles of slurry filling and drawdown in order to achieve a desired final volume reduction and solids concentration increase. Relatively simple relationships have been developed in the past to calculate these final volumes and solids concentration values. But the rate of volume reduction and solids concentration increase, that is the time periods over which these occur, requires a more sophisticated analysis and modelling approach.

Analytical model

The TenCate paper in Geosynthetics International magazine develops an analytical model that accounts for dewatering behaviour over multiple dewatering cycles. The model is based on the maintenance of a mass–volume balance at all points in time. Fundamental to the analytical model are two empirically derived dewatering parameters that characterise behaviour during the filling and drawdown phases. Two full-scale field test cases that involve the dewatering of gypsum slurry and contaminated sediments are presented to demonstrate the validity and accuracy of the analytical model. Agreements are obtained for the profiles of geotextile tube heights with time, incoming and exiting volumes and final solids concentrations when comparing the modelled results with the actual results.

Containment and dewatering

TenCate Geotube® dewatering technology has become the dewatering method of choice for organizations around the world. There are no belts, gears, or complicated mechanics. TenCate Geotube® containers are constructed of high-strength, permeable, specially engineered technical textiles designed for containment and dewatering of high moisture content sludge and sediment. This TenCate technology is one of the most versatile dewatering technologies available and most effective. Volume reduction can be as much as 90%, with high solid levels that make removal and disposal practical and easy.

**TenCate Geosynthetics
Pendergrass, Georgia, USA, Friday 7 February 2014**

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For further information:

Visit www.icevirtuallibrary.com or www.geotube.com to read the entire paper.

Digital pictures are on request available via: media@tencate.com

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TenCate Geosynthetics develops and produces synthetic fabrics, non-wovens, wovens and geogrids, and creates design solutions and systems for infrastructure and civil technology. TenCate Geosynthetics has factories in Europe, North America and Asia.

Royal Ten Cate (TenCate) is a multinational company that combines textile technology with chemical processes and material technology in the development and production of functional materials with distinctive characteristics. TenCate products are sold throughout the world.

Systems and materials from TenCate come under four areas of application: safety and protection; space and aerospace; infrastructure and the environment; sport and recreation. TenCate occupies leading positions in protective fabrics, composites for space and aerospace, antiballistics, geosynthetics and synthetic turf. TenCate is listed on NYSE Euronext (AMX).