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GNA - The Most Widely Read Online Geosynthetics Publication *Reaching more Players in the Geosynthetic Industry*

NEWSMAKERS: * ACIGS * ASTM * ExcelPlas * GCCM * Global Synthetics * GSI * IGS * PFAS * Solmax * Tensar

July Webinar: The Effect of External Parameters and GCL Structure on GCL Hydration (22 July)

<https://globalsynthetics.com.au/july-webinar-the-effect-of-external-parameters-and-gcl-structure-on-gcl-hydratation>

GSI to Host Webinar on UV Resistance of Geosynthetics (July 8)

<https://geosyntheticsmagazine.com/2020/06/27/gsi-to-host-webinar-on-uv-resistance-of-geosynthetics/>

"Siamak's Geosynthetic Podcast with Rob McIlwraith"

<https://youtu.be/UUoMktV4XsU>

New Standard Will Support Measuring Quality of Cement in Geosynthetic Composite Mats

W. CONSHOHOCKEN, Pa., June 26, 2020 – A new ASTM International standard aid engineers and specifiers looking to understand the quality and strength of cement contained in geosynthetic cementitious composite mats (GCCMs). ASTM's geosynthetics committee developed the new standard, which is needed to allow for a consistent industry method for the application of compression strength in GCCMs.

GCCMs are flexible concrete impregnated fabrics that harden on hydration to form a thin, durable waterproof and fire-resistant concrete layer.

According to ASTM International member Joe Royer, vice president, R&D, ClockSpring NRI, the new standard (soon to be published as D8329) will be critical for manufacturers' ability to compare cement quality in their products. He notes it will also be important to asset owners, engineers, and contractors to ensure that compression data reported on GCCM technical data sheets are measured for field applicable water-to-cementitious material ratios.

"Because these materials are hydrated in the field typically with excess water and no mixing, it is critical to understand the actual field water-to-cementitious material ratio," says Royer. "If a measurement is taken with an optimized value from lab conditions it will not accurately reflect

what is occurring in the field application, so this standard allows for laboratory determination of typical field ratios.”

Royer notes that task groups within the geosynthetics committee are developing other GCCM-related standards, covering flex, installation, and sampling, along with a GCCM terminology standard.

<https://www.astm.org/Standards/D8329.htm>

Tensar Demonstrating Dynamic Cone Penetrometer (DCP) Testing for Shear Strength of Clay Soil

<https://www.youtube.com/watch?v=m5VVINXIJZQ>

Release of Toxic Species from Plastics Pipes after Combination of Environmental Exposure of Polymer-based Products to Induce Aging Processes

<https://www.mdpi.com/1996-1944/13/12/2709/pdf>

Analysis of Geosynthetic-Stabilized Base Course over a Subgrade Considering Base Modulus Degradation in a Transversely Isotropic Layered Elastic System

<https://www.sciencedirect.com/science/article/abs/pii/S0266352X20302317>

Presentation on Geosynthetics in Roadway Applications

<https://pavement.engineering.asu.edu/wp-content/uploads/2020/06/2019-Geosynthetics-in-Roadway-Applications.pdf>

ACIGS Announce 2020 Geosynthetic Photo Competition

<https://www.acigs.org/?page=CiviCRM&q=civicrm%2Fevent%2Finfo&reset=1&id=11>

ACIGS Supporting Research in PNG

<https://www.acigs.org/acigs-supporting-research-in-png/>

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Among GNA's objectives are:

- To promote and educate on the development of specifications and practices that help ensure the proper use of geosynthetics.
- To locate, interpret and disseminate new scientific research to manufacturers and users of geosynthetic materials.
- To enhance the knowledge and awareness of contemporary geosynthetic technologies amongst specifiers, users and installers.

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