

Multifunctional Office Building (Varna, Bulgaria)

Classification	New construction
Type of structure	Multipurpose Building
Place/Time	Varna – Bulgaria, November 2019
Project	Multifunctional office building with hotel, restaurants and conference halls in the town of Varna, on the Bulgarian Black Sea Coast.
Products applied	<p>Krystaline Add1 was used to waterproof a total of 2700 m³ of concrete used in all below grade structures including a 140 cm monolithic slab foundation (pictured below) which required a continuous pour with no joints.</p> <p>The ability of Krystaline Add1 to enhance slump retention and dramatically reduce plastic and shrinkage cracking was taken into special consideration when designing the concrete mix.</p>
Application	<p>The slab foundation, the most challenging part of this project, was completed successfully after 26 hours of continued pouring and resulted in a smooth finish, free of cracks.</p> <p>Krystaline 1, Krystaline Dry and Krystaline K-BAR SW were used to waterproof concrete joints according to Day Joint Designs no. 1, 2 and 3 depending on specific conditions. Tie holes were sealed with Krystaline Dry.</p>



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Pour in progress:



Finished slab:

