



New UN report warns against irresponsible sand extraction: Innovative process by MultiCON succeeds in solving a global problem

The Munich-based company MultiCON has achieved a breakthrough: From now on, an innovative, patented production process makes it possible to render desert sand usable for the construction industry. This can make a decisive contribution to the economy, the environment and politics.

Munich, 09 May 2019. A recent study of the United Nations found that the demand for sand has extremely increased. A clear regulation and sustainable management of the global sand supplies are key demands of the United Nations Environment Programme (UNEP). But the search for sand alternatives in the construction industry is also claimed. Up to now, experts have not considered desert sand to be an alternative for larger construction projects. "Due to its characteristics and surface structure, the "vacant gold" has lain idle so far", says Dr. Helmut Rosenlöcher, developer and partner of MultiCON. "It has not yet been possible to develop a technology being able to make the resource of fine sands usable." Until now! With the dual concrete mixing technology developed by MultiCON it is even possible to produce high quality, less expensive, environmentally friendlier and future-oriented concretes. The solution for the rapidly increasing sand demand.

In the first step of the newly developed process, fine and desert sands are pulverized to sand flour. The pulverized product is subsequently pelletized with mineral binders to form pressure-resistant pellets. These pellets are then used for the production of high quality concretes by applying the MultiCON Dual High-Speed Mixing Technology. Compared with conventional standard concrete, these concretes are 25 % lighter, harden quicker and have more than twice the strengths 24 hours after production. With this method, high quality concretes can also be produced from unusable fine sands, as they are found e. g. in Mecklenburg-Western Pomerania. The processing of existing, local sand sources results in greater economic and political independence. Particularly with respect to construction projects in the Middle East, there was vivid demand for the innovative technology.

Already in 2017, Dr. Rosenlöcher took the decisive step in research and since 2018 the technology has been marketable, culminating in planning and implementation in different countries. "With this production process, we not only want to make a decisive contribution to solving a global problem", says Dr. Leopold Halser, Managing Director of MultiCON. "But it is also a question of optimizing the product of concrete to the highest possible extent and to preserve it for the future in terms of resource conservation." Because: During conventional concrete production, enormous quantities of the greenhouse gas carbon dioxide are generated. MultiCON's innovative technology leads to a CO₂ reduction of up to 30 percent. Further advantages: The process considerably reduces the concrete production costs (8 - 15 percent could be saved in comparison).

The MultiCON GmbH with headquarters in Munich was founded in 2016. The company offers innovative overall solutions for the concrete industry. The range of services covers planning, know-how transfer, patent licenses, country licenses, construction and operation of the plants. MultiCON is cooperating with renowned institutes and universities to develop new patents and products. MultiCON always searches for custom-fit solutions for global and local challenges in the industry and implements them in a market-specific way. For more information, go to www.multicongroup.com