



AUSTRIAN COOPERATIVE RESEARCH  
*KOOPERATION MIT KOMPETENZ*

## **Press release**

Austrian Cooperative Research

### **ACR Co Award 2018: Perenium - polymer-based cement stabilization. Faster construction time, lower costs and reduced environmental impact.**

**New company Adinotec has developed an innovative frost protection system for roads. Perenium is set to compete with existing products which protect base courses against frost damage.**

**In only six months, Perenium was brought to market in collaboration with research partner Smart Minerals. For this achievement they were awarded the ACR Cooperation Award 2018 on October 1.**

Vienna, October 2, 2018. When in road construction a surface is typically made of, for example, gravel, Adinotec's innovation has created a polymer: Perenium. In combination with cement, this additive stabilises base courses and protects them against frost damage. Adinotec now offers Perenium in dry and liquid form, and the company has subsidiaries in India, Poland and Slovakia. But the path was not easy: "There was a lot of persuasion needed," says CEO Michael Salzmann. "It was only possible with a research partner fully recognised in the industry."

Salzmann is already planning to expand Adinotec. In only six months, the young innovative Viennese technology company, with just four employees, succeeded in gaining CE certification. "Based on the test results, we proved that we have an excellent product, one which has earned the trust of our customers," he states.

This extraordinary progress was made possible by cooperation with Smart Minerals, a research company and member of the Association of the Austrian Cement Industry (VÖZ), and the Vienna University of Technology.

"We had two advantages", explains Project Manager and Smart Minerals Managing Director Stefan Krispel: "Number one: we had complete confidence in our partner. We agreed on the goal, but the way to get there was up to us. That

means we could have failed. Number two: We deal with the approval of a product with the in-house certification body."

Perenium signals a major revolution for the construction industry as it eliminates the need for gravel liners to stabilise the substructure. The improvement in frost protection comes from the addition of the polymer. "Perenium increases frost resistance without increasing compressive strength," explains Krispel. "A higher strength could lead to reflection cracks, and so should be avoided. The ability of Perenium - in combination with cement and an aggregate - to improve frost resistance surprised us."

For the environment, Perenium also appears to be a positive step as local materials in the given aggregate can also be used for the base course. Building site journeys, such as those to transport material, will be reduced and, as a result, construction time becomes shorter and the costs decrease accordingly. Salzmann expects that in the future Perenium will play an increasingly important role, particularly in the repair of roads.

Neither Salzmann nor Krispel believes that the construction industry is sceptical about innovation. "The construction industry may be conservative, but it must also be able to guarantee longevity and safety," says Krispel.

### **What the jury said**

The jury highlighted the "quality and impact" of Perenium, as well as the particularly positive achievement of CE certification. The product could also "lead to high resource savings and therefore create positive sustainability effects".

**Photos:** <https://www.acr.ac.at/presseaussendungen/>

**Video:** <https://youtu.be/II4C0wZ3-Tw>

### **Questions:**

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## **About the ACR Cooperation Award**

The ACR Cooperation Award recognizes successful innovation from an Austrian small or medium enterprise (SME) with an ACR Research Institute. Innovation content, practicality, economic success, impact on market competition, and employment opportunities created are assessed. The jury is made up of representatives of the following organisations: Federal Ministry for Digitalisation and Business Location, Federal Ministry of Transport, Innovation and Technology, Federal Ministry of Education, Science, and Research, KMU Research Austria, Austrian Research Promotion Agency FFG, Council for Research and Technology Development, Federation of Industrialists, Austrian Chamber of Commerce.

[www.acr.ac.at](http://www.acr.ac.at)

## **About the ACR**

Austrian Cooperative Research (ARC) is an umbrella organisation and advocate for cooperative research institutes. ACR institutes carry out applied research, along with development and innovation, especially for SMEs. They also complete testing, inspection and certification as well as technology transfer and knowledge transfer. As such, ACR contributes to the presence of innovation in medium-sized companies and the removal of hurdles for access to research and development. ACR institutes are important interfaces between science and large enterprises (national and international), and SMEs. In 2017, the ACR institutes had a total turnover of € 64.4m and employed 775 staff.

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