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DECEMBER 2021

FINAL NEWSLETTER

endurcrete

THANK YOU!

We have successfully finished our project! **EnDurCrete** started in **January 2018** and was planned for **42 months** (end in **June 2021**). Most of the tasks and work were delayed due to national and international restrictions and the project was extended for 6 months to conclude all tasks and activities properly. Despite the COVID-19 situation, which was very challenging, the **EnDurCrete** project will come to an end on **December 31st 2021.**

FINAL STATEMENT OF THE COORDINATOR

After 4 years, the EnDurCrete project is coming to an end on December 31st, 2021. The final EnDurCrete concrete solutions are now exposed to seawater, frost, and soils for more than 1 year. The project partners organized a final public event "Looking into the future of eco-friendly and durable concrete" online last November 10th with more than 100 participants. Training courses have been prepared for you to learn more about certain aspects of our new greener concretes and the EnDurCrete final video is also now available.

The project has achieved its ambitious targets to develop eco-friendly and more durable concretes. We have developed efficient low clinker multi-component Portland cements and concretes. We have included nano-modified clays to immobilize chlorides coming from the seawater to prevent damage. We have included micro-sized carbon fibers and carbon filler materials to sense damage, and textile equipped with fiber-optic sensors to replace conventional reinforcement and for continuous monitoring. Additionally, we have developed multi-functional coatings designed to offer surface protection to concrete.

With all the characterization data generated within the EnDurCrete project, the consortium has extensively worked on modelling concrete durability and on service life prediction. Degradation phenomena are now better understood. Life cycle analysis has allowed us to prove the added value of the developed EnDurCrete solutions compared to conventional concretes. We have also looked at all other aspects such as the health and safety of our products and their recyclability.

The EnDurCrete consortium will continue to collaborate beyond the project. We will continue to exploit and disseminate the results of the project throughout conferences and scientific publications. At the time of this Newsletter, we have already published 11 scientific papers and 13 articles in several magazines.

We encourage anyone who wants to follow up on our research and development and who wants to collaborate with the EnDurCrete consortium to do so. EnDurCrete has only grasped the surface of the future of concrete. The entire construction sector must continue to improve the efficiency, performance, sustainability of buildings and infrastructures.

Meanwhile, we would like to "concretely" wish you a Happy Christmas time & a Happy New Year 2022!

Dr. Arnaud Muller

FINAL VIDEO

The final project video concludes the results and presents the work of all the **EnDurCrete** partners. Watch it below!

PROJECT EVENTS

During the project's timeline, the **EnDurCrete** team organized four events, two physical workshops, and two online webinars.

B-SMART! WORKSHOP 2019

The concrete construction industry facing durability challenges. Organized by **EnDurCrete** project and ReSHEALience project with the sponsorship of ACI Italy chapter in Milano, Italy.

AMANAC WORKSHOP 2019

What kind of built environment for future generations? Organized by the **EnDurCrete** project, ReSHEALience project, DACOMAT project, and AMANAC cluster in Brussels, Belgium.

Read more about the events on our website!

TOWARDS GREENER AND MORE DURABLE CONCRETE 2020

Online webinar on the topic of developing environmentally friendly and highly durable concrete, demonstrations in real conditions, testing, casting, and more. Hosted by **EnDurCrete** and ReSHEALience project. Watch it below!

LOOKING INTO THE FUTURE OF ECO-FRIENDLY AND DURABLE CONCRETE 2021

The primary goal of the final webinar was to demonstrate the **EnDurCrete** project's objectives, concept, and achievements. Thanks to the ReSHEALience project, BUILD UP for co-organizing, and FENIX TNT for moderating. Watch it below or download the presentation here!

TRAINING MODULES

EnDurCrete partners, GEONARDO in collaboration with AMSolutions, and RINA, developed three specific training courses on new, greener concrete. Complete the courses and become a specialist in environmentally friendly concrete!

Content of the training:

1. Multifunctional coatings for applications on concrete surfaces
2. Installation instructions (Environmental monitoring system, Optical connections between two consecutive panels, Connectorization of fiber optic sensors)
3. Concrete corrosion and prevention and repair methods

REGISTER HERE

MERRY CHRISTMAS

The EnDurCrete team wishes you Merry Christmas and a Happy New Year!
Thank you for subscribing to our newsletter, do not forget to subscribe to our social media to learn about follow-up activities!

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