







# FUTURECEM

## GREEN AND SUSTAINABLE CEMENT TECHNOLOGY WITHIN CEMENTIR LOW-CARBON PORTFOLIO



FUTURECEM™ is an innovative, validated and patented technology which allows more than 35 % of clinker substitution in cement with limestone and calcined clay.

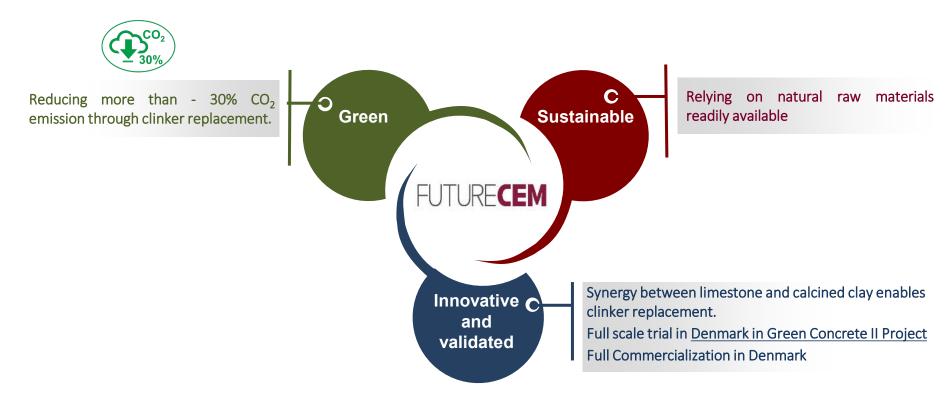


https://www.cementirholding.com/en/our-business/innovation/futurecemtm.





#### ... key values in a nutshell.







Technology patented in US, Canada, Mexico, Brazil Europe, India, China and Australia; Fully acknowledged for clinker ratio reduction by IEA in 2018 and as "low- clinker cements" by Cembureau. it is, also, formally recognized in EN 197-5 for CEM II/C-M with only 50% of clinker.





#### ... Green Concrete II: bridges and indoor construction







**FUTURECEM technology** is highly resistant to the most aggressive environmental exposure classes.

**FUTURECEM technology** is suitable for concrete industry, while maintaining conventional production and execution technologies.

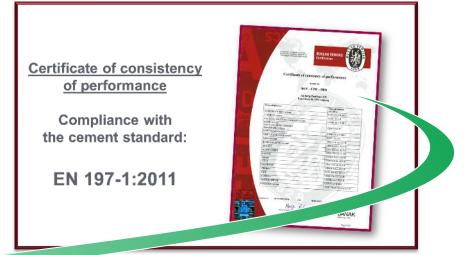




#### ... at the forefront of limestone-calcined clay technology







Inclusion into Danish Adaptation for European Concrete Standard DS/EN 206 DK NA:2020 since 1 January 2021





FUTURECEM™
CEM II/B-M(LL-Q) 52.5N
in the DK market
since January 2021





### ... feedbacks on field applications ....







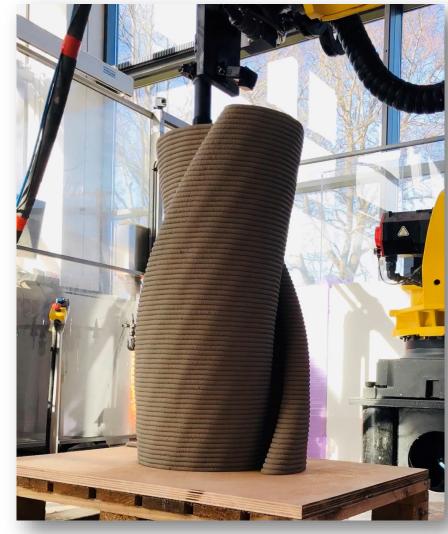








#### Beyond conventional....3D Print



3D print with FUTURECEM $^{\text{TM}}$  Courtesy, Wilson Leal da Silva, Danish Technological Institute

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- 1 FUTURECEM<sup>TM</sup> has shown to be very suited for use in 3D printing
- Both FUTURECEM<sup>TM</sup> based on grey cement and white cement has been tested with good results
- Significant CO<sub>2</sub> reduction was achieved by replacing CEM I with FUTURECEM<sup>TM</sup>

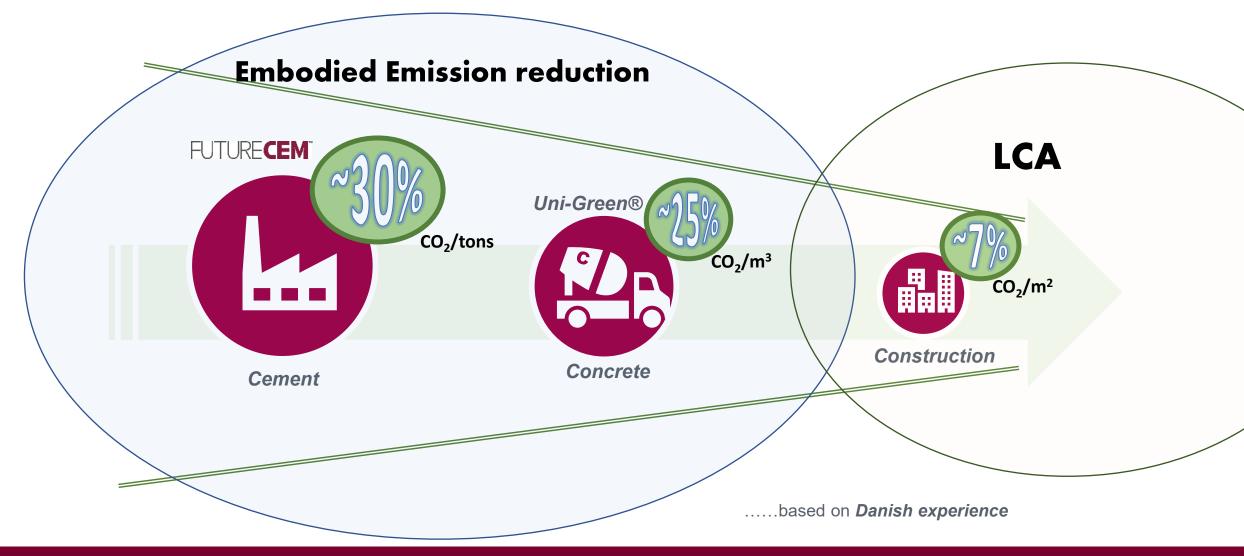
Results from N3XTCON Project





...as key contributor to decarbonize concrete, construction and cement-based industries.











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