IMERYS

LEAP®

TOWARD SUSTAINABLE CONSTRUCTION

LEAP®* is a new product range able to do More with Less thus providing a giant "leap" in specialty binder performance.

* LEan calcium Aluminate for sustainable Performance

Supporting a new era of sustainable construction

Sustainability is a catalyst for fundamental change in the construction industry.

Imerys is uniquely placed to unlock the sustainable potential of building materials to drive innovation and meet the changing needs of the industry and contribute to protect our planet.

Working with Imerys means partnering with a world leader in high-performance mineral solutions, putting innovation, and sustainability at the heart of construction.

Here for generations

Product description

Ultra-Reactive specialty binders range: flexible or easy to use products available with long shelf-life.

Unparalleled performance in all kinds of building materials such as fixing and repair mortars, precision grouts or flooring applications.

Key technical benefits

Enhanced Robustness.

- *No compromise; Early strength and long lasting performances.*
- *Iso reactivity from 5°C to 35°C.*

Secured Dimensional Stability.

Key sustainability benefits

Lean mix designed for low CO_2 footprint binders: low environmental impact of the final formulation, thanks to its ability at ensuring lean mix design binders.

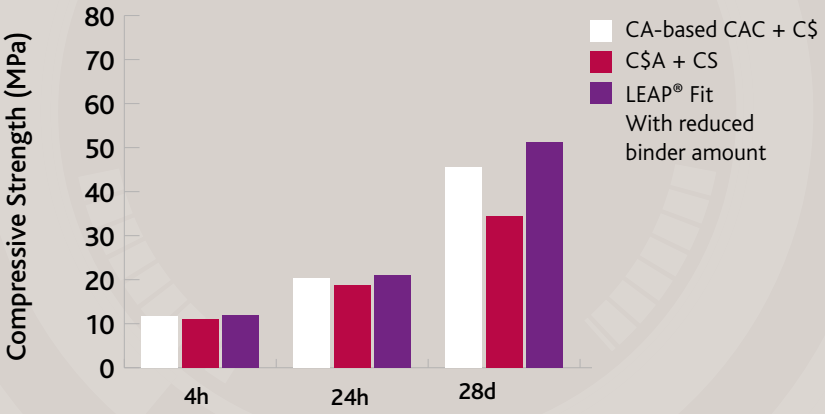
Enabler for low Carbon Concrete industry: Allow concrete industry to use LC3 binder without losing performance at Low temperature.

Doing more with less

Decrease of binder content and CO_2 footprint by 25%

Less Carbon Footprint, **More** Performance.

C$A = Calcium Sulfoaluminate
CA-based CAC = Calcium Aluminate Binder
C$ = Calcium Sulfate



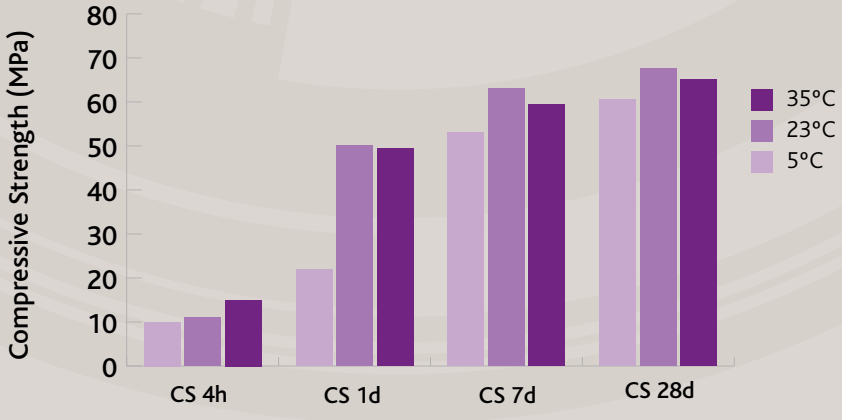
Raw Material	%		
CEM I 52.5 R	19.4	18.53	14
CA-based CAC	3.75		
CSA		4.94	
LEAP® Fit			4.7
C$ Anhydrite	1.45	1.23	
Set additives	0.4	0.2	0.2
AFNOR Sand	75	75	81
% water	11.5	11.5	11.5

180 $kgCO_2/T$ → **140** $kgCO_2/T$

25% *decrease in carbon footprint*

4x4x16 Samples / 23°C, 50% RH / All setting time between 30 and 50 minutes

LEAP^R: Iso-Reactivity from 5°C to 35°C



Raw Material	%
CEM I 52.5 R	20
LEAP® Fit	5
Tartaric acid	0.045
Na_2CO_2	0.1
Lithium Salts	0.05
AFNOR Sand	75
% water	**12.5**

5°C
Open time – 15'
Final set – 33'

→

35°C
Open time – 20'
Final set – 38'

4x4x16 Samples / 23°C, 50% RH, or 5°C, 80% RH, or 35°C

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