Hidratium

Self curing by design

Build your world efficiently.

INTRODUCING HIDRATIUM, PROFESSIONAL CONCRETE FOR A SUSTAINABLE WORLD.

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Self curing by design

ADVANTAGES & BENEFITS:

Costs and Time Savings

- No additional chemicals have to be stored, manipulated or added on the concrete for curing purposes
- Elimination of plastic shrinkage cracking and reduction of long-term shrinkage by at least 50%
- Increase in the durability of concrete structures by approximately 25%
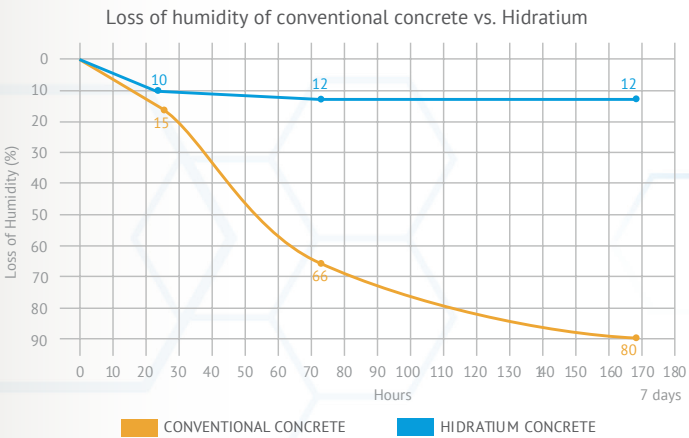- Reduction in labor costs

Positive Environmental Impact

- Improved water management – reduction of water evaporation by approximately 80%
- For a flooring surface of 100m^2, water savings equivalent to the daily consumption of 50 people (70L/m^2)
- Life cycle of concrete is improved - reduction of construction time by approximately 30%

CONVENTIONAL CONCRETE VS. HIDRATIUM:

Concrete type	Loss of Humidity kg/m^2	ASTM C-309-06 ASTM C-156-05 Max. 0,55 kg/m^2
Conventional without curing	0,58	Does not pass
Conventional with membrane	0,48	Passes
Hidratium	0,44	Passes

Concrete type	Shrinkage reduction, mm^2
Conventional without curing	191.10
Conventional with membrane	95.00
Hidratium	46.96

Loss of humidity of conventional concrete vs. Hidratium

Loss of Humidity (%)

Hours — 7 days

10, 12, 12, 15, 66, 80

CONVENTIONAL CONCRETE — HIDRATIUM CONCRETE

APPLICATIONS:

- All concrete types:
  Conventional, high performance, pre-cast, sprayed, and others (e.g. special application: pervious concrete)
- Horizontal and Vertical applications:
  Walls, columns, floors (residential and industrial), pavements, stamped concrete
- The proposed concrete technology (mix design and admixtures) can be used in any application where curing is crucial for the quality of the concrete.
- It is possible to combine Hidratium technology with other types of concretes technologies (SCC, Screeds, Waterproof, Impermeable …)

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