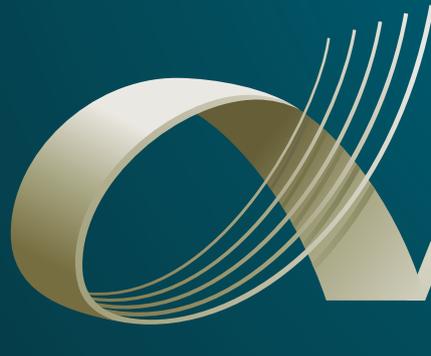


CONCRETE



Agilia

CONCRETE IN MOTION

New Horizons for
Self-Compacting
Concrete



A business partner of Lafarge
Agilia is a brand of Lafarge



LAFARGE

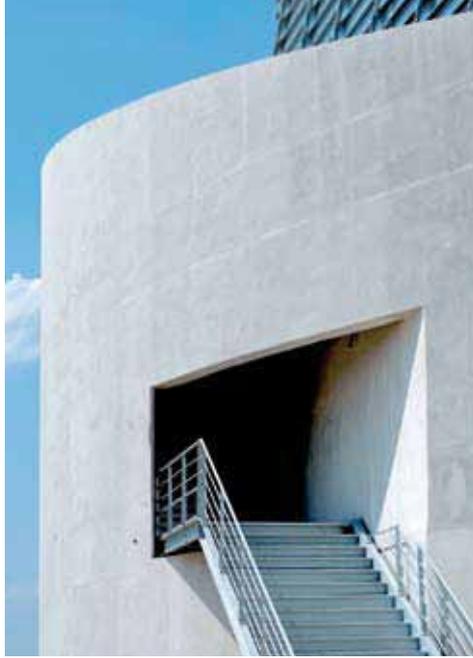


Advantages of Agilia™

The new concrete technology used in Agilia™ products allows for placing without difficulty, providing excellent quality concrete with outstanding surface finishes. Agilia™ gives flexibility on worksites at all levels, for all types of applications (foundations, toppings, horizontal and vertical structures and architectural finishes).

- **Reduced efforts on site**
when placing the concrete
- **Faster placing process**
- **High-quality finish**
for vertical components
- **Fewer**
pouring points
- **Aesthetically Pleasing**
- **Perfectly flat**
for slabs and floors
- **No vibration required**
reduced noise impact





Agilia™ a complete range of self compacting concretes

NO VIBRATION

As there is no **need to vibrate** Agilia™, working conditions on site are improved, reducing the risk of “vibration white finger” together with reductions in noise pollution, thereby, allowing concrete pours to be carried out even in noise sensitive environments.

EASY PLACEMENT

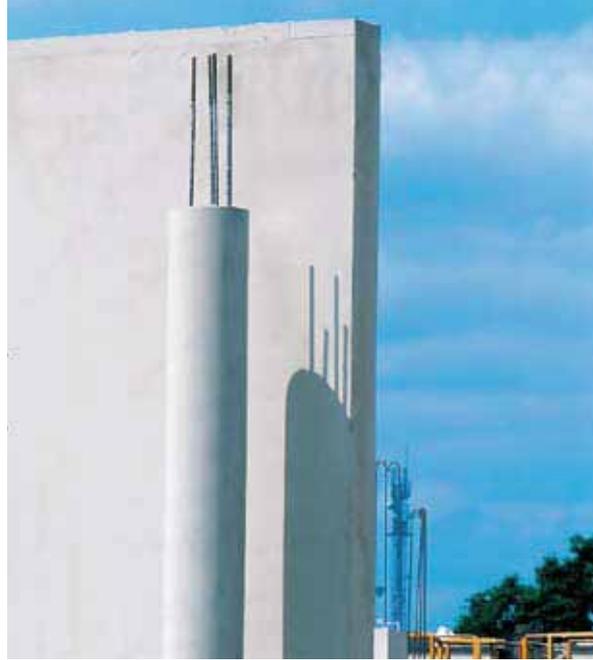
The flowing properties of Agilia™ concrete **eases placement** significantly, by reducing the number of **pour points** and **operations** on the worksite. Complex and innovative shaped structures can be achieved, especially where congested reinforcement or very long formwork is involved. For **horizontal applications**, the product’s impressive ease of leveling enables swift and easy coverage of large surfaces and flat toppings. Ideally suited for **deep sections** where congested rebar makes placing conventional concrete very challenging.

WORKSITE FLEXIBILITY

The characteristics and reliability of the Agilia™ family of products mean better worksite organization, with **reduced pouring points**, **crane handling** and more efficient labour utilization for concrete work. Depending on the application, superior surface quality can be attained with reduced finishing work. In certain mixes, rebar can be replaced by specific fibre to reduce labour requirement.

FASTER CONCRETE WORK

Agilia™ speeds up concrete work due to fewer concrete delivery points needed, the possibility of pouring seven to ten linear metres at a time, less formwork labour requirement, no vibration needed and excellent surfaces.



Agilia™ Innovation

Agilia™ mix design stems from tight control on two seemingly opposite physical properties: fluidity and stability.

Fluidity is necessary to provide easy concrete placement and a high-quality finish with minimum effort. At the same time, it can increase segregation, which can lead to uneven hardened material, cracks and blemishes. On the other hand, **Stability** is necessary to prevent segregation but can lead to high viscosity and poor placement. Reconciling these two opposite requirements is a further challenge since fresh concrete is subject to a wide variety of mechanical stresses from the batching plant to placement depending on the process, environment and application.

Agilia™ offers a robust solution based on **granular packing** concepts and on the latest discoveries in **organic chemistry**, **mineral chemistry** and **fluid mechanics** applied to fresh concrete.

Strict control of mix design technology enables optimal application of cement properties and allows Agilia™ to **retain its fluidity for more than two hours**. **No water is to be added on site**. Yet **setting time is controlled and early strength** is comparable to conventional concrete.

Readymix Qatar provides a complete range of Agilia™ products suited to the needs of each worksite application, with mechanical or aesthetic benefits, in horizontal and vertical applications including different surface finish such as sandblasting and polishing for vertical elements.

RHEOLOGY ENGINEERED TECHNOLOGY

1. Fluidity control
2. Hydration control
3. Integration of green-concrete dynamics

Agilia™ offers a full range of products adapted to individual applications.

The product formulas are based on cutting-edge knowledge of mechanical and chemical phenomena that govern green-concrete rheology, from in-plant mixing to formwork setting.

Segregation rating model



Source: Lafarge Research Center

Granular packing model





**NO
VIBRATION**

**EASY
PLACEMENT**

**WORKSITE
FLEXIBILITY**

**FASTER
WORKING CONCRETE**



Customer -driven innovation

Each second Lafarge, the business partner of Readymix Qatar delivers concrete to one of countless construction projects around the world and every day 1,200 technical sales representatives interact with customers at over 6,000 different sites. For Lafarge and Readymix Qatar innovation is the way of addressing the needs encountered through these interactions. The research and development team are dedicated to innovation, exceeding even the greatest demands of our clients. Our new concretes attain new levels of technical performance and anticipate changing industry requirements. Each new product is designed to be more effective in the construction process and help our clients achieve greater success.



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READYMIX QATAR LLC

Al Sadd Sales Office, PO BOX 5007, Doha, Qatar
Tel: +974 443 41796/1798 Fax: +974 443 28056
agilia@rmg-readymixqatar.com.qa
www.readymixqatar.com.qa

