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Agilia

CONCRETE IN MOTION

LAFARGE
Building better cities™

New Horizons for Self-Compacting Concrete



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Advantages of Agilia™

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

- ⊖ **Reduced effort on site**
when placing the concrete
- ⊖ **Faster placing process**
- ⊖ **High-quality fill**
for vertical components
- ⊖ **Fewer**
pouring points
- ⊖ **High surface quality**
to meet needs
- ⊖ **Achieve flatter surfaces**
for slabs and floors
- ⊖ **No vibration required**
reducing 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. By eliminating vibrators the risk of white finger is removed. Substantial reduction of noise pollution allows concrete pours to be carried out even in built up environments.

EASIER TO PLACE

The flowing properties of Agilia™ concretes ease placement significantly by reducing the number of pour points and operations on the worksite. Sophisticated shaped structures can be poured, especially where heavy reinforcement or very long formwork is involved. For horizontal applications, the product's impressive ease of levelling enables swift and easy coverage of large and flat surfaces. Easy use alongside reinforcing cages for deep foundations.

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 metal fibre to reduce labour requirement.

REDUCES LABOUR TIME

Agilia™ speeds up concrete work as fewer concrete delivery points are needed; the possibility of pouring seven to ten linear metres at a time; less formwork labour requirement; no vibration needed; and excellent smoothness that eliminates the need to float horizontal concrete 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 90 minutes. No water is to be added on site. Yet setting time is controlled and early strength is comparable to conventional concrete.

Lafarge 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.

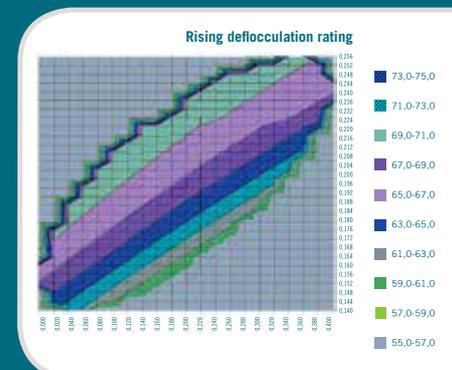
RHEOLOGY ENGINEERED TECHNOLOGY

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





Customer driven innovation

Each second Lafarge delivers concrete to one of countless construction projects around the world. Every day 1,200 technical sales representatives from Lafarge interact with customers at over 6,000 different sites. Innovation is our way of addressing the needs we encounter through these interactions. Our research and development teams 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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