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 innovative 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.

Bonded Applications

Agilia™ Screed A is a pump-applied, free-flowing, self-consolidating synthetic anhydrite floor screed. Lafarge’s Synthetic Anhydrite is used as a composite reactive filler in this pump-applied, free-flowing, self-consolidating synthetic anhydrite floor screed.

- For use with under-floor heating.
- Suitable for radiant construction.
- Suitable applications which can be tooled/finished when using Agilia™ Screed A.

Characteristics

- Lafarge’s Synthetic Anhydrite is used as a composite reactive filler in this pump-applied, free-flowing, self-consolidating synthetic anhydrite floor screed.
- Provides crumbly, crack-free surface for the application of most floor coverings.
- Provides a high-quality surface finish with minimal cracking and no curling.
- Reduces the need for construction joints and allows for reinforcement.
- Ideal for use in underfloor heating applications.
- Resistant to high and low temperatures.
- Hygroscopic, free and will not harbour bacteria.

Agilia™ Screed A is placed directly on the supporting floor.

Bonded System to have a minimum thickness of 25mm on highest spot.

The bonding characteristics of Agilia™ Screed A.

- A minimum of two coats of bonding agent or primer is required.
- A bonding agent or primer shall be applied to the floor surface prior to placing Agilia™ Screed A. A minimum of two coats of bonding agent or primer is required.

Suitable for all residential and commercial floors.

- Ideal for both new build and renovation work.
- Suitable for all residential and commercial floors.

Unbonded System to have a minimum thickness of 20mm on highest spot.

The base is to be swept clean, should be smooth enough to ensure that a polythene sheet should be 150/200c - 350/500 ultrathin, to prevent leakage to the floor below.

Unbonded and Floating Screeds

- The surface where the screed is to be placed must be free from dust, float, holes and debris. Hole covers in the floor must be swept and covered prior to the floor below.
- The bonding agent should be applied to the floor surface prior to placing Agilia™ Screed A. A minimum of two coats of bonding agent or primer is required.

The surface where the screed is to be placed must be free from dust, float, holes and debris. Hole covers in the floor must be swept and covered prior to the floor below.

Good compaction around the heating pipes is assured due to the texture of the floor and the absence of voids and air pockets.

For use with under-floor heating.

- With ambient temperature of 20°C and with good ventilation, Agilia™ Screed A can be laid within 3-12 hours depending on conditions.

Forced drying of Agilia™ Screed A is possible if required: after three days and awaiting further drying conditions.

Residual Moisture Content

- Before floor finishes are laid, the moisture content of the screed should be checked by the floor finish contractors.

Thermal and Acoustic Flooring & Radiant Heating

- The thermal conductivity of Agilia™ Screed A is between 0.11 and 0.13 W/mK.

Thermographic image 80 minutes after heating

The thermal conductivity of Agilia™ Screed A is 2.5 – 3 times greater than traditional screeds with only 30mm required for the clear cover over the pipes.

Radiant Floor Heating

- This enables the system to release the heat much more quickly and efficiently in response to the users’ requirements.

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- The base is to be swept clean, should be smooth enough to ensure that a polythene sheet should be 150/200c - 350/500 ultrathin, to prevent leakage to the floor below.

- The surface where the screed is to be placed must be free from dust, float, holes and debris. Hole covers in the floor must be swept and covered prior to the floor below.

- The bonding agent should be applied to the floor surface prior to placing Agilia™ Screed A. A minimum of two coats of bonding agent or primer is required.

Agilia™ Screed A is well suited for radiant floor heating applications as it is laid much thinner than traditional screeds with only 30mm required for the clear cover over the pipes.

- Reduces the need for construction joints and allows for reinforcement.

- Provides a high-quality surface finish with minimal cracking and no curling.

- Reduces the need for construction joints and allows for replacement.

- Ideal for use in underfloor heating applications.

- Resistant to high and low temperatures.

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Benefits of using AGILIA™ SCREED A

- No Shrinkage
- Does not Curl
- Ease of Placement
- Self-leveling
- Increased Productivity
- Reduced Labour
- Level Floors
- High Flexibility
- Up to 10,000 sq. ft. with No Joints
- Improved Heating Efficiency
- Potential for LEED® Credits

Using Agilia™ Screed A

Advantages
- Ready in 60 mins. - Suitable for foot traffic usually within 24-48 hours.
- Partitions can be erected seven days after placing.
- High strength - Typical compressive strengths up to 45 MPa.
- Fast placement - Up to 400 sq. ft. can be placed per day.
- Weight - Weight saving due to reduced dead loads.

Applications
- All Agilia™ Screed A is exclusively installed by authorized contractors. These contractors have the proper equipment and are properly trained. An up-to-date list of members of the HBM Network is available from your local Lafarge representative.
- A typical new site will lose three to five percent depending on the size of the floor in favourable conditions some can vary widely to 20%. In one day.

Site Conditions
- The surface should be water-proof without covering. When applicable, especially referring to systems, there must be a damp-proof membrane below the screed or base.
- Delivery
- Agilia™ Screed A is then simply pumped into place.
- The building shall be weatherproof before screeding. Where applicable, timber or timber-based panel supports.
- The substrate must not be frozen and ideally should be within the indicated temperature range.
- No curing is required, however the floor should not be subjected to severe drafts, direct sunlight or heating for the first 72 hours.

Installation Guide

Edge Detail
- Polyethylene strips or other forms of impermeable material must be placed around the perimeter and other vertical upstands.
- On-site quality control is carried out by the applicator using a simple test to verify the consistency of the mix.

Site Conditions
- The substrate must be suitable for the drying of the screed - i.e. in the case of radiant pipes and sound insulation, it must not be frozen and ideally should be within the indicated temperature range.
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AGILIA™ SCREED A floor systems

Bonded system
- Separation layer system
- Insulation system
- Electrical heating system
- Warm-water heating system

Substrate Types
- Agilia™ Screed A can be laid where the substrate is any of the following:
  - Concrete slab, jar-jack concrete floor, etc.
  - Tile, vinyl, insulation, etc.
  - Timber or timber-based panel supports.

Ambient Conditions
- Agilia™ Screed A must only be laid when the air temperature is between 15°C and 30°C.
- The substrate must not be frozen and ideally should be within the indicated temperature range.
- No curing is required, however the floor should not be subjected to severe drafts, direct sunlight or heating for the first 72 hours.

Joints
- Concrete joints are not required in areas up to 10,000 sq. ft. depending on area layout and applications.

Slump-flow Measurement
- When Agilia™ Screed A arrives on site the slump-flow test of the material should be 230 to 260mm for Agilia™ Screed A and 330 to 360mm for Agilia™ Screed A Fina (depending on conditions) when measured using the appropriate equipment.
- If there is a lack of the required slump-flow, then the abatement mechanisms, adequate ventilation or the substrate floor should be laid.

Following Placing
- The room will be suitable for normal foot traffic when the temperature is between 15°C and 23°C.
- The floor should not be subjected to severe drafts, direct sunlight or heating for the first 72 hours.

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