



AIRIUM®

Lightweight Flooring and Filling Solutions, with a Difference!

The lightweight mineral foam for flooring and filling applications in your buildings.

APPLICATIONS:

- Monolithic screed or sub-screed in podiums, roofs and floors.
- Surface leveling and slope.
- Lightweight sub-screed underlayment.

PRODUCT ADVANTAGES:

1. MORE SUSTAINABLE SYSTEMS

Sustainability

Embarked CO2 intensity of AIRIUM® based systems versus alternatives. Airium helps in lowering dead loads, reducing transport, diminishing waste and simplifying the end of life, AIRIUM® is a key lever to decrease the CO2 footprint of your projects.

Recyclability

AIRIUM® is mineral and can be easily recycled into Cement / Concrete. AIRIUM® can be easily recycled along with the concrete slab with no separation phase, as required to separate for other fossil fuel based products or other non-cementitious products.

2. EASIER LOGISTICS

AIRIUM® is made out of LOCAL only ingredients and directly encapsulates air bubbles on site. Weight reduction of the product is made through air incorporation without using any type of fossil fuel based light-weight aggregates.

3. IMPROVED SITE EFFICIENCY

The installation of the AIRIUM floor is fast, simple, flexible and durable with lightness of your floors - From 8m³/hour up to 18m³/hour.

4. LIGHTER SYSTEMS

- Simplify your life on site.
- Highly performing, reliable & stable systems in time.
- Continuous lightweight and consistent materials.
- Dimensionally stable over time: limits cracks.
- Foamed on site at the desired density.
- Reduces the number of trucks to site.
- Reduced waste.
- No clogging of pumps.
- Pump from the ground.
- AIRIUM floors are up to 25% more acoustic efficient than concrete screed.
- Contributes to thermal performance of systems.

5. ENHANCED INDOOR COMFORT

The thermal performance of the Airium system is 2 times more efficient than conventional systems for a better indoor comfort.

6. LONG LASTING AND RELIABLE

Safety with Durable and Stable Insulation. It is a healthy breathing material with no volatile organic compounds and is incombustible.



WHY CHOOSE AN AIRIUM® FLOOR?

AIRIUM® technology offers the possibility of lightening the inter-floor slabs in all types of buildings besides providing thermal comfort.

The performance of AIRIUM® Floor allows it to combine lightness, thermal, and acoustic comfort.

PROPERTIES:

- Oven Dried Density
400-1000 kg /m3 when tested according to ASTM C 495.
- Fire resistance class A1 Absorption rate < 30%
- One way filling thickness: from 5 cm to 50 cm
- Compressive strength at 28 days
0.5 MPa – 6 MPa when tested according to ASTM C 495.

Certification:

- ETPM (CSTB) October 2016.
- CNERIB Technical Opinion (in progress).

AIRIUM® Floor is a pump-applied underlayment solution designed to produce weight-reducing mineral foams for inter-floor, podiums, roofs.

IMPLEMENTATION:

1. Surface Preparation of the platform

- Cleaning : Make sure that the surface is free from oil residues and other construction debris.
- Placing : Marks to be according to the level parameters.
- Place a 2 cm polystyrene seal at the openings (at the door, French window, etc.).
- Place vapor barrier, 500-1000 gauge below AIRIUM® or damp the surface with water
- Expansion joints maximum 100m2

2. Machine settings

Set the AIRIUM® production and machines according to the desired dry density between Requires 3 phase electric and water connection to the machine.

3. Pouring and finishing of AIRIUM®

- Pouring of AIRIUM®
- Deposit and place AIRIUM® mineral foam in a continuous operation until an entire panel is completed.
- Do not vibrate.
- Place to depths and slopes indicated.
- Leveling of the AIRIUM® mineral foam with the leveling bar.
- Finishing and leveling the surface of AIRIUM® with an aluminum smoothing tool.
- Cleaning waste to be dumped in designated areas or bags.

4. Pouring of Concrete Screed and the Finishing

- Finish top surface smooth, free of ridges and depressions, and maintain surface in condition.
- After the AIRIUM® has dried, between 3 to 7 days, carry out the following steps:
- Cover the AIRIUM® with sheets, if the screed topping is delayed more than 3 days of AIRIUM® pouring to retain the moisture.
- Damp / sprinkle water on the AIRIUM® surface before
- Pouring an Agilia® / Morpla / Artevia® concrete screed.
- Laying a mortar or cement glue.
- Laying the ceramic tiles or parquet / carpet.

SERVICE:

Product availability: Optimized, thanks to the packaging of AIRIUM® Premix binders in pallets of 1.6 tons maximum (25 kg / bag), available. AIRIUM® binder is also available through Readymix plants in transit mixer for higher densities.

Site assistance: Advice on implementation for technical sites.

READYMIX GULF

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